

Ether-Physics and -Philosophy

Third Part

03.	Local Movement	Update 2004-06-06
03.01.	Basics and Objectives	Starting points and contents of this section
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03.03.	Volumes and Shapes	Ether can only move into three directions same time, right angled to each other - like electromagnetism works
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03.05.	Circulating Waves	Swinging movement of nucleus demands swinging by right angles, in shape of circulating wave
03.06.	Tumbling Axis	Volumes are to exchange via poles in shape of swinging longitudinal axis
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03.08.	Movement's Directions	Left / right, up / down, ahead / back within universe resp. dominating movements likely / controversial sense
03.09.	Movement's Drive	Motor of steady movements within Potential-Vortex-Clouds and their wandering through ether
03.10.	Potential-Vortex-Cloud	Diverse appearances of Local Ether Movement, from electron to galaxies
03.11.	Wandering Potential-Vortex	Potential-Vortex-Clouds moving ahead through ether, e.g. photons, light speed, rotation of earth etc.
03.12.	Summary	Results of considerations of this section

03.01. Basics and Objectives

Starting Point Ether

At part 01. Introduction was shown, there is really only one matter within universe. That ether is pure continuum, so not composed by any parts, but un-dividable and gap-less, whether compressible nor expandable, also not elastic, so everywhere of same 'density'.

This ether would be purely passive, i.e. without any energy and without any possibility of movements. However, second fact of real sure knowledge was detected, besides matter of ether exists movement within universe. As nothing else than ether exists (that could be in motion), only that ether can be in motion.

Starting Point Movement

At part 02. Universal Movements was shown, which kind that motion must be. There is background-swinging, where all points of ether move parallel to each other, at distances of quant's scale. These movements are swinging turns into different directions, by different speeds and radius. All movements overlay each other, so resulting complex spiral-cluster-tracks.

This basic movement is structured by most limiting rules. Here is assumed model of twelve 'frequencies' by four bands of each three turnings. Basic movements could well be organized other kind, however that model is based at well-founded experiences of Global Scaling. On the other hand, this model corresponds to structural criteria of chemical elements, e.g. like Plichta did show.

This universal movement pattern is basis of resonance for all other appearances. This movement exists within whole universe same shape, thus really holistic. So these movements work as order resp. structural function at any place same kind. These movements work morphogenetic, cause only coarse pattern of movements can exist continuously when behaving synchronous to multiples of 'frequencies' resp. corresponding to nodes of that background swinging movements.

Axioms

Properties of ether and basic pattern of universal movement can be deduced from real existing facts. Opposite, it's not possible for human understanding, why universe is existing at all. 'Homo faber' can only imagine, something has to be made by any parts or has to be produced. Thus humans 'think' some God is responsible for existence of universe.

There are diverse genesis, e.g. some spirit did install 'waters' (here ether), also introduced 'light' and breathe 'life' into (here motion), divided coarse from waters (here initialised Bounded Ether).

So we don't know why, but only know that there exists something - here called ether - and that stuff is in motion (here universal movement) and above this, there are existing local movements of some other kind (e.g. like photons as 'brickstones' of radiation) and also are existing some 'solid bodies' (material-hardy appearances).

Electron-Movement

At this part 03. Local Movement now are objectives to discuss these coarse patterns of movements (in relation to universal movement). As an example will serve electron, which can be free separated appearance, on the other hand is brickstone of diverse chemical elements (like discussed at later parts).

This general pattern of motion exists also much finer size, e.g. as photons or neutrinos or even spiritons (brickstones of spiritual appearances). These occurrences are also discussed by later parts.

Only one pattern

At earlier workouts, I often compared ether with a monolith, in order to demonstrate property of gapless solid body. Even monolith outward appears stable, inside everything is in motion: atoms and molecules are trembling within their grid-structures, electrons run around nucleus and also nucleus are full of motions - so I thought, there could exist movements of most diverse patterns within ether-monolith.

By detailed considerations however got obvious, many movement patterns are not possible, e.g. all common movements of world of material appearances are impossible, like discussed at previous part. Lastly, only one possible pattern of movements did remain - and I was shocked (and now did understand intuitive reservations of most readers and discussion partners versus my strict opinion concerning ether-continuum).

How should obvious variety of material occurrences be constructed by only one type of brickstone - so question was. That movement pattern well exists in diverse size, however e.g. all atoms should be build by only that uniform movement's element.

On the other hand was stated, laws all times are strict limitations, eliminating most possibilities, often reducing to one single case. Instead of many kinds of 'materials' e.g. was detected, all chemical elements are build by rather few different brickstones (and it was stated here, lastly all sub-elementary particles are no hardy bodies, but are sections of tracks of universal ether movement). One single stuff of ether is sufficient for most complex structure of universal movements. So one single type of coarse movement's pattern well could do for most different physical occurrences.

Electromagnetism

Clear sign for this assumption e.g. is, rules of electromagnetism already are present completely within movement's pattern of electron. Electric field and magnetic field and induction are well known and practically complete civilisation is based on usage of electromagnetism in most diverse apparatus. However up to now, nobody can explain strange connections, e.g. of these each right-angled effects.

If now properties of ether and its basic background movements, in principle allow only one single pattern of coarse movements, and just this pattern inevitably shows typical properties of electromagnetism - it's grave argument for understanding of ether presented here.

Sea-Waves

At this part 03., now first time 'material' occurrences are described as local 'coarse' movement's pattern. These movements of 'Bounded Ether' are rather large in

comparison with universal ether movement (some scales wider). Free Ether thus now is called 'resting' and its ether points are called 'stationary' (even basic movement naturally exists everywhere, however by much smaller dimensions compared with these wide coarse movements).

For easy understanding of these movements, at following chapter is discussed simple example of overlays of turning movements. Some essential elements of these movements are well to explain by well known sea waves. At next chapters is discussed, how movements can come up even within constant volumes of ether - with far reaching consequences of these simple geometric facts. Afterwards, movements of electron are discussed step by step and some further rules and laws and appearances are pointed out.

03.02. Overlays

Sea Waves

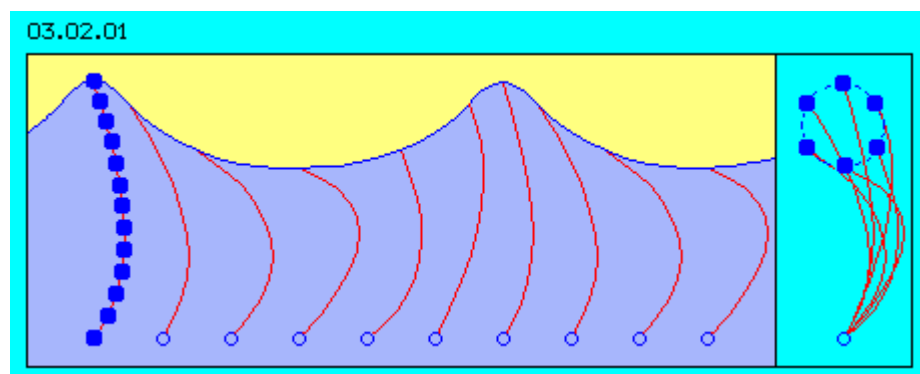
Here are discussed sea waves, thus an appearance of material world. As mentioned above, these 'material' movements are not quite similar to possibilities of movements of ether (cause ether has no parts, opposite e.g. to water). Nevertheless, some essential elements resp. problems of ether movements can well be demonstrated by example of sea waves.

At picture 03.02.01 schematically is shown a section of 'sea with waves'. First impression probably is, that wave is not drawn exactly. For us, 'nice' waves are like sinus-waves. At chapter 'No Cross Waves' for example is shown a wave sinus-shaped (produced by throwing stone onto water surface). These waves result of lifting and falling by symmetric process.

Waves of sea however are produced and driven by wind (here running from right side to left), and waves result of turning water movements. Indeed, these waves show 'valleys' much longer than 'mountains', like every water-sportsman knows - and doesn't like 'short-waved' seas.

Deep Waves

Wave is not only matter of surface but waves reach far down waters. However anywhere deep downside, water keeps calm, here marked by stationary points downside of picture.



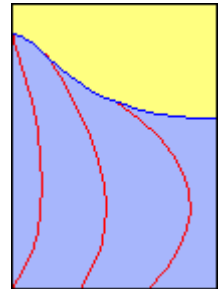
At this picture left side is marked a line of water parts, from bottom of resting water up to a waves tip. Further right side are drawn only these 'connecting lines' between

each corresponding water parts. These red lines e.g. could also represent long stalks of seaweed.

If now a wave-mountain becomes wave-valley (like drawn further right side), water masses of mountain has to sink down, i.e. waters previously positioned there has to escape. This motion is marked by diverse connecting lines, all of same lengths however bended to right side more or less. Water parts downside as a whole are moving like water parts of surface, in total of same size.

Circled Movement

At this picture right side, diverse connecting lines from resting water (of one point downside) with their different curves are drawn together, resulting well known fact, waves in reality exist of turning movements. Waves at surface indeed produce impression of water masses running ahead, however waters in principle stay stationary, are only moving at circled tracks.



This animation shows even smaller section with that wave 'rolling' from right to left side. Appearance are water movements-ahead, while reality is resting water downside and swinging movements of connecting line, i.e. of neighbouring water parts further upward.

Very deep Effect

Water parts can shift alongside each other. Nevertheless water masses between connecting lines should be constant, i.e. should shown same cross-sectional surface all time. This picture of submarine movies with swinging seaweed is well known, and distances between these 'trees' should be constant all times.

At this picture however, it's obviously not fact. So points of 'resting' water should be much deeper. Appearance of wave at surface thus practically is only symptom of much wider water movements in much deeper regions.

This insight is rather important for movements of ether, cause within ether no parts can shift e.g. alongside inner border surfaces. Within ether thus each wide movement (analogue to wave at water surface) demands rather large area of balancing movements (by really 'astronomic' relations, e.g. by millions larger distances).

Different Speeds

Water of surface 'storms' ahead rather fast, at least water-mountains, while waters downside swing back relative slow. This process is not to achieve by simple circled movement (like at picture upside), cause this turning movement would simply turn constant speed at constant radius. Different speeds at different radius demand overlay of circled movements. Some samples of that kind of overlays are shown at picture 03.02.03.

At A are marked diverse positions of a water particle during movement's process (blue points). This part of water does turning movement (E) at rather short radius. It's turning point (F) by itself is moving at circled track with rather long radius around second turning point (G).

Resulting of overlay of these both turning movements is spiral track (blue and grey) of that water particle. Speed of each section of track is marked by different distances between points. Upside are overlaid both movements showing actually to left side, i.e. there water moves fast ahead to left side. Downside however, turning at short radius shows into opposite direction of turning at long radius, so water down there moves slowly back to right side.

So movements of sea waves are not only simple circled movements, but real movement's pattern results of overlay of at least two circled movements. This movement-system shown at A, now is overlapped by analogue movement's pattern at both sides (thus not only next to left and right side, but real overlaps continuously), where each neighbouring movement is phase-shifted (rather important aspect within ether, described at later chapters).

So each simple sea wave is system of rather complex overlaying turning movements. These movements are possible within two dimensions (like here at surface of pictures), cause water parts can shift alongside neighbouring parts.

Analogue to these processes are movements of ether, however there are no separated parts, so neighbours can not shift alongside each other. That's why movements of ether within ether all times must occur into all three dimensions same time (as discussed next chapter).

Different Tracks

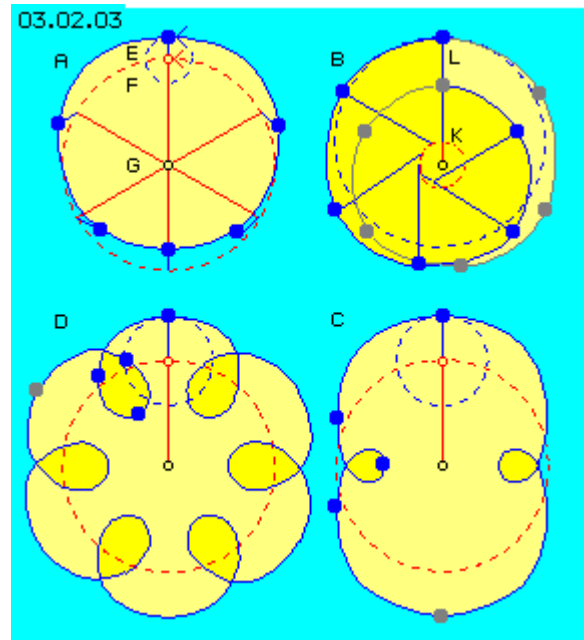
At following chapters diverse overlays of turning movements are involved. Therefore at this picture 03.02.03 are drawn some further variations.

At B as an example, radius are arranged vice versa: around central turning point (K) is drawn turning at short radius. At each position of that circled track second turning works at much longer radius (L). Resulting of this combination is spiral track becoming steady more narrow (positions at blue points) and at following phase becoming steady more wide (positions at grey points).

At C opposite, constellation is analogue to A, however radius of outer turning is some larger and relation of angles speeds is different. Instead of oval track (at A), now results two wide and two narrow bows, where absolute speed is quite different.

At D, speed of outer turning is increased once more, so many loops come up, however differences of speeds and distances are less.

These few examples may demonstrate, overlays of two circle-round turning movements with each constant turning speed, depending at relations of speeds and



radius result most different tracks with most different absolute speeds (like discussed in details at some following chapters).

These considerations concerning sea waves thus are not to transfer one-by-one to movement's processes of ether (cause water exists of parts while ether is part-less). Nevertheless, possibilities like problems shown here are similar within ether. However, within ether all movements must show into all three dimension same time - like detailed at following chapter by some geometric aspects.

03.03. Volumes and Shapes

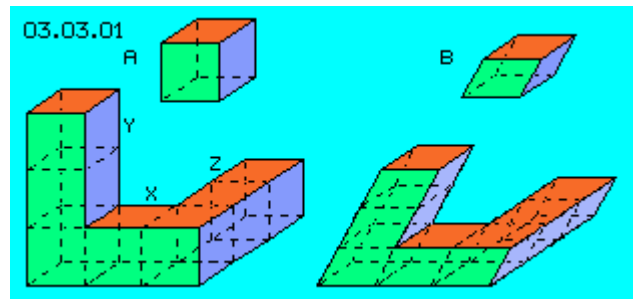
Analogue to Sea Waves

At previous chapter was shown, how sea waves give impression of movements ahead by kilometres, while real movements are limited to rather narrow area. Water moves only at circles, however by overlays. Movement of local swinging is marked e.g. by connecting lines (resp. seaweed-trees) from resting water at bottom up to surface in heavy motion.

Analogue to these impressions, now basics of local movements of ether are to consider. Opposite to water, ether is part-less real continuum, so no parts can shift alongside each other, no border-surfaces nor flow-threads exist.

Fictive Grid

If now at the following is talked about grid-lines or grid-surfaces or volume-units within three-dimensional bodies, so these divisions are fictive and terms only for mental considerations. However it's paid attention to fact, all fictive volume-units keep constant while movement's processes, property of ether (invariable density) is valid. So these abstract considerations represent reality quite well.



At picture 03.03.01 at A a cube is drawn and one could imagine, whole universe is divided (fictive) into such unit cubes. Ether-cubes like this, thus would be arranged narrow together with same height (Y) and width (X) and depth (Z). However, this kind of divisions makes no sense, cause each shifting of grid-line (resp. grid-surfaces) would reduce volume unit.

At this picture at B, alternative division is drawn by 'sloped cube'. This unit e.g. shows square surfaces downside and upside, right-angled surfaces at left and right side, however parallelogram surfaces at front side (green) and backside. Volume of this unit is basic surface multiplied by vertical height.

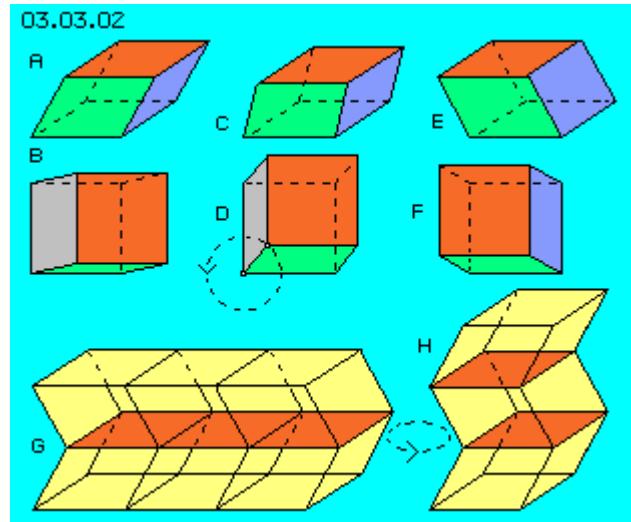
Circle Movement

At picture 03.03.02 previous sloped body is shown once more, at upper row by diagonal view, at middle row by view top down. At A (by diagonal view) one can see upper surface (red), front surface (green) and right surface (blue). Upper surface is

shifted to left side and some backwards versus bottom surface (dotted lines), so at B (by view top down) one can see upper surface (red), front surface (green) and left surface (grey).

If upper surface rests at same level above bottom surface, volume of that unit is constant. So upper surface could be turned around at same level, without changing volume. By this movement, all ether points would turn parallel at circled tracks.

One possible position is shown at C (by diagonal view), where upper surface is shifted some backward (while bottom surface is stationary). At D (by view top down) edges frontside-left (of upper- and bottom-surface) are marked and circled arrow points direction into which connecting line is swivable. At E and F for example, upper surface is turned further left side.



Parallel to this line, also three other lines (showing upward) would swivel around each edge. Each point of bottom surface could be connected with corresponding point of upper surface (thus representing neighbouring ether points). All these lines would swivel same kind parallel to each other, thus all ether points from bottom to top would turn at each larger circles.

At G are drawn three of these sloped bodies one besides next and mirrored upside three likely bodies. Grid surface in the middle (red) is mutual connecting surface. Bottom surface of downside bodies and upper surface of upside bodies are resting, however middle surfaces can swivel around (by constant volumes).

At H are mounted three of these sloped bodies one above the other. Even surfaces most downside and most upside are stationary, levels between could move by circles.

So it would be possible, through whole universe one or several layers to move at circled tracks. However, this would be universal movement (however no real one), so this possibility is not relevant for locally limited movement pattern.

Twisted Cubes

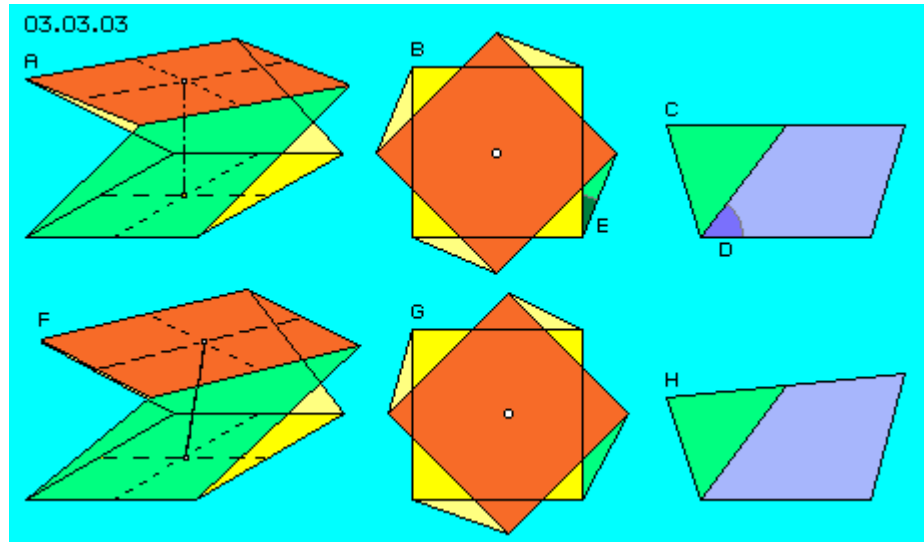
Previous right-angled grid is no ether-like division, previous sloped body already allows some ether-like movement, however much better fits 'twisted' cube to universal ether movements. This shape of geometric bodies are shown at picture 03.03.03.

At A this body is drawn by diagonal view. Bottom surface is marked yellow. Above that surface, upper surface (red) of cube is twisted by 45 degrees. Side surfaces thus also are twisted planes, only front surface is marked green.

At B this body is shown by view top down, where upper surface (red) is shifted above bottom surface (yellow). Lines between upper- and bottom-surfaces are drawn (however not planes of side surfaces).

At C is shown view from right side onto this body. One can see only right surface (blue) and part of front surface (green). All side surfaces are shaped like twisted parallelograms.

This body is arranged that kind, side-lines show 45 degrees to bottom lines. This angle is marked by D. This line thus by view top down shows 22.5 degrees to edge-line of bottom surface. This angle is marked by E.



This body resp.

this grid show essential elements of universal ether movement. At chapter 'One-Two-Three-Four' were arranged grid-lines around fictive globe (as space for universal movements), each shifted by 90 and 45 degrees resp. 67.5 and 22.5 degrees. These grid-lines did show directions of overlaying turning at different 'bands of frequencies'. So this kind of cube would represent local section corresponding to general ether movements.

Deformed Cubes

Now this body should be deformed, however without changing volume. At H new view from right side is shown. Frontside edge (left) there is dropped a little bit, backside edge (right) is lifted correspondingly. Both other edges rest at original level, so average height of body is constant and thus also volume is unchanged.

At G is shown, this tilting aside of upper surface (frontside-down, backside-up) is only possible, if upper surface is shifted to right side same time (upper surface no longer rests central above bottom surface, so drawing G is not symmetric).

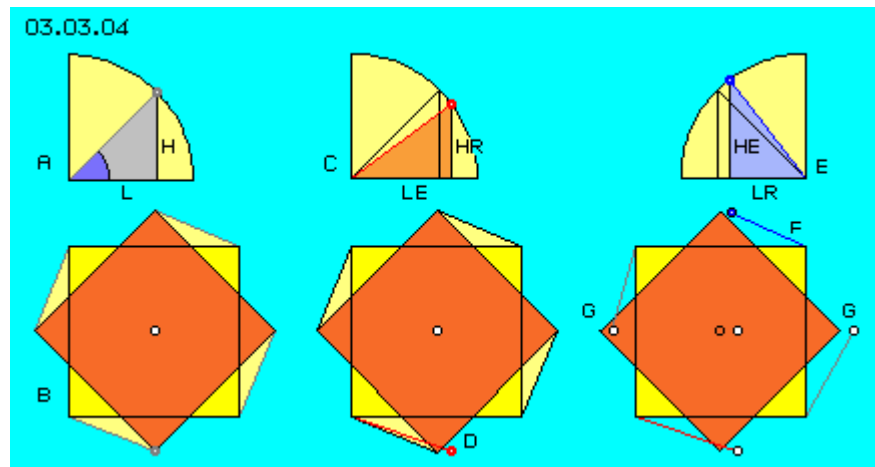
At F this new shape of body is drawn by diagonal view, where frontside edge has moved some down and backside edge has move some up. Same time, axis between bottom- and upper-surface now is tilt to right side. Following picture shows reasons for coupling of both right-angled movements.

Tangens 45 Degrees

At picture 03.03.04 at B, once more is shown starting situation (like at B of previous picture) with upper surface (red) symmetric above bottom surface (yellow). Upside at A is drawn frontside line between upper- and bottom-surface (corresponding to B downside). This line shows 45 degrees to bottom, so height H (between upper- and

bottom-surface) is like horizontal distance (L) between edge points (upside and downside).

At C now this line is drawn by some smaller angles, so height (HR) of this edge of upper surface is reduced, and distance (LE) between edge-points is enlarged correspondingly. By view top down, new position of this edge is marked by D.



Opposite now at E is lifted opposite edge (by same angles), so height (HE) is enlarged and distance (LR) between edge-points is reduced. By view top down, new position of this edge of upper surface is marked by F.

So by this tilting of upper surface, not only both edge-points did change heights, but both are shifted to right side (by same size). So also both other edge-points (by view top down left and right) now are shifted to new positions G (while their height is unchanged, thus these edges did only swivel like at previous sloped bodies).

Tilting of upper surface inevitably results shifting aside. Naturally also shifting of upper surface vice versa would force tilting of upper surface same time (opposite to previous sloped bodies with all times parallel turnings).

Indispensable mutual interdependence of both movements thus produces result shown at previous picture 03.03.03: Tilting into sideward direction (H) resp. towards frontside (F) results same time shifting of upper surface to right side (G) resp. same time tilting of central axis.

Only within Ether-Continuum

Difference between medium with parts and without parts once more is to point out. Within medium of particles (e.g. gas or water or like ether normally is assumed) surfaces of previous right-angled cubes could be shifted without any problem. If one edge of surface moves down, particles located there could easy move into direction of opposite edge moved upward (by internal shifting versus each other). If average height of that body is constant, thus any shape could be achieved by same volume.

Only if ether is assumed to be real (part-less) continuum, all neighbouring ether points must be neighbours all time, are movements possible only in shape of turnings (like previous moving down / up of two edges and simultaneous overlay by swivel of both other edges). Only that part- and gap-less medium demands inevitably these both movements right-angled to each other.

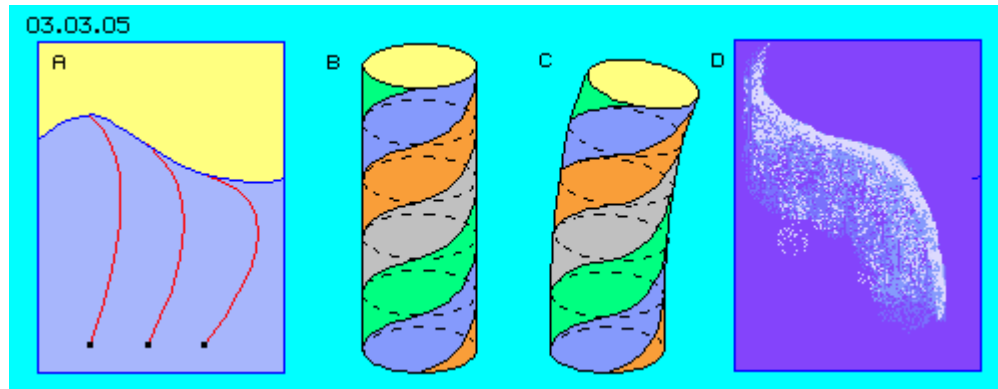
At the other hand, these movements are only possible when starting from angles of 45 degrees (which here same time is combined with angles of 90 and 22.5 degrees).

This is clear hint for correspondence of this local movement with universal movement, i.e. that concept of four bands of three turnings, shifted by these angles, is really true.

Indispensable coupled Movements

At picture 03.03.05 at A, once more is shown starting basis of sea waves with connecting lines of neighbouring water parts. This drawing shows, different distances between resting water (downside) and water part in motion (upper parts up to surface of water) is equalised (or becomes possible) by more or less bending of connecting line.

These processes are not realistic represented by straight lines or right-angled grid. Neighbouring water parts are not



arranged straight line, but only neighbours at bended lines show similar swinging movements, only marginally differing from one part to next - by overlay of turning movements within vertical surface.

Analogue to these processes, local movements also within ether work, however only by overlay of turnings (resp. bendings) right-angled to each other. Cause ether has no edges, here at B is drawn round cylinder and 45-degrees are marked by twisted band around cylinder. At C is shown, this ether-cylinder is to bend and twist only into two directions same time. Analogue to movements of previous example, also here (fictive) cross-sectional surfaces are tilt and shifted gradually, while central longitudinal axis is bended continuously by spiralic curve.

If a material rod (or pipe or tube) is bended into only one direction, tension within material comes up. Only if bending is combined with twisting, tensionless curve is to achieve (e.g. like willow rod is handled for building baskets or garden hose is easily rolled up). As ether is whether compressible nor expandible (thus can't equalise previous tensions), every ether movement must occur by two turnings right-angled to each other simultaneously.

This picture of bended rod (C) thus is not quite correct as ether really has no border surfaces. Analogue movements occur also outside of this fictive borders. Movements of each outer neighbouring area however must not do process totally same kind, but gradually 'faded' resp. locally introverted (like described at following chapter).

Real Appearances

These curves bended within space are well known. At this picture right side at D for example is shown polar-light with its impressive lines at upper border. Also photos of nucleus-research show tracks like these (if interpreted within three dimensions) caused by 'annihilation of particles'. Most direct hint to real existence of that kind of

movements however are laws of electromagnetism, most popular usage of ether movements by any electric apparatus.

It's well known, magnetic field exists exactly right-angled to electric field, induction occurs right-angled, forces work right-angled. This strange behaviour is special property of all electromagnetic appearances, on which practically all other physical occurrences are based. This right-angled effect is contradicting to all experiences of pure mechanical forces and up to now there was no explanation for these phenomena. That's why one normally works only by abstract term of fields, sufficient for technical aspects.

It's no question: all appearances of electromagnetism are real movements of real ether (not of abstract fields) and that ether only can be real continuum (based on properties of many occurrences). Only based on this assumption, general laws of right-angled 'mutual affects' are to explain - based on simple mechanical processes within ether-continuum with its strict limitation of possibilities.

The only problem is, not to think by parts and right-angled grids, but to see occurrences as expression of strict structure of movements within 'amorphous' ether (i.e. part- and border-less medium). Next chapter now will describe this basic structure by further details.

03.04. Swinging Disc

Steal Spring

At previous chapter was shown, local movement within ether can only occur into two directions same time. Example of cylinder there, with its twisted connecting lines and its bended longitudinal axis, is to compare with a steal spring. Windings of spring can be more or less narrow to each other, each change of shape however would be inevitably combined with corresponding bending of spring's longitudinal axis.

Within ether exist whether grid-lines nor border surfaces, however these (fictive) twisted tracks show, which kind movements within ether can only occur: all times only by more or less bending. Movements within ether are possible anywhere - however only into directions of both coupled movements.

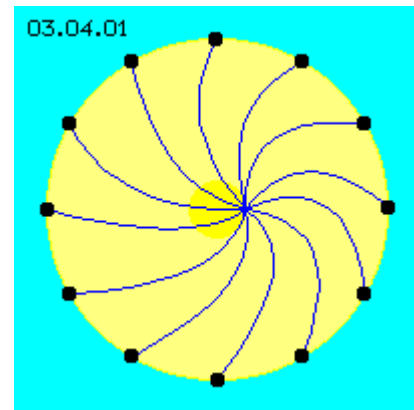
In order to discuss possibilities of movements step by step, at this chapter here at first are discussed movements only within one surface, thus only two-dimensional. Demanded movements into third dimension are discussed at following chapters.

Above this, at first this area of local movements is assumed to be stationary within universe. Wandering of these 'whirlpools' through ether of universe is discussed some later.

Outside Calmness, inside Motion

Movement within ether in principle is quite other kind than motions within 'material world'. Material car for example rolls ahead at road, so this body is shifted alongside its supporting surface. Material wheel turns around its axis, at outer circumference moving by faster (absolute) speed than further inside. Typical properties of mechanical movements of material occurrences thus are linear movements (of any shape) and 'rigid' vortex (of round turning shapes).

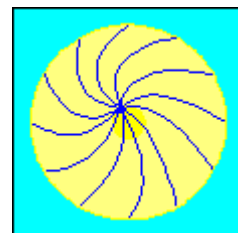
At picture 03.04.01 is shown opposite principle of local movements within ether. Black points at outer circumference represent Free Ether. These ether points are only 'trembling' at spiral cluster tracks of universal ether movement, by very small distances. So these points here are called relative stationary resp. 'resting ether'.



Each ether point is located directly besides its neighbouring points. Neighbouring points here are marked by bended connecting lines. These curves more or less bended meet at one point. Within three-dimensional space, all connecting lines are same length (only here at two-dimensional view top down these lines appear of different lengths).

If now a strongly bended curve should become less bended, connecting line of opposite side must become stronger bended. Point of intersection of all curves thus can be moved at central marked circle, while all outside (black) points are not involved.

These are decisive characteristics of all local movements within ether: movements within an area is well possible, while border of area keeps stationary. Near centre of area all times is much more motion than at outer parts of area. It will never occur turning-around, but only possible are swinging movements at circled tracks.



This animation shows general process of all local movements within ether. There is no circling around axis, central ether points are only swinging parallel around centre. Motion is comparable with 'wobble-disc' (resp. swinging sander), where e.g. right border all times keeps right side. Central ether points show relative strong swinging motions, which become smaller distance towards outside, until resting ether at border (thus swinging is fading towards outside, quite different to previous example of swinging sander). These differences of movements are equalised by changing shape of connecting curves (which here are only drawn by view top down).

Sea Waves Roundabout

Comparison of sea waves is to mention once more, like discussed at chapter 'Overlays' e.g. by picture 03.02.01. All outside resting points correspond to 'stationary waters', far below water surface. From there, bended connecting lines guide upwards to surface. Whole surface here is concentrated within one point of intersection, i.e. these sea waves fictively are arranged around that centre.

'Wave' of water surface here is swinging around central marked circle. Differing distances between calm area outside and central area in motion are equalised by swinging connection-curves differently bended.

Nucleus and Balancing Area

An other characteristic criteria of local ether movements gets obvious: there is a centre of motion (here marked by central circled surface), however there is much

more motion demanded within far reaching surrounding area (like sea wave at the surface represents only small part of all involved waters in motion).

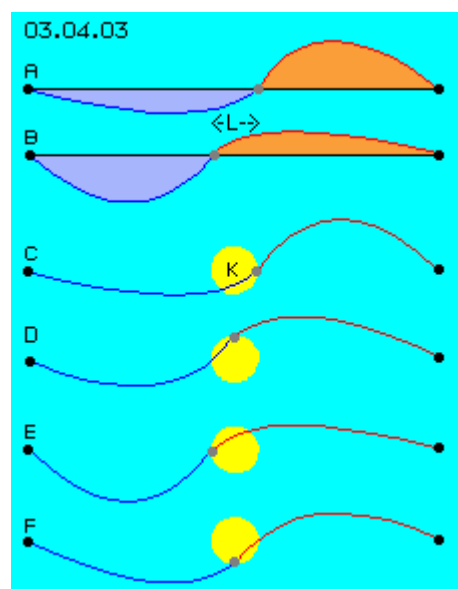
These balancing area outwards to resting ether is much larger than core. Bending of connecting lines and central nucleus of motion are extremely overdrawn in these pictures. In reality, connecting curves are only minimum differing and balancing area is wider than nucleus by many scales (e.g. like diameters of sun in relation to whole sun system).

Dislocation of Ether Points

At picture 03.04.03 previous dislocation of bending within connecting lines is shown once more. Here is drawn only one connecting line by view top down, i.e. without its bending into third dimension. Black points left and right side represent Free Ether (relative stationary), one point at centre is watched while moving.

At A connecting line left side is bended only little bit (thus is relative long), connecting line right side is bended stronger (thus is relative short), so observed point is shifted a little bit to right side.

At B both bendings have changed and observed point is shifted to left side by distance L. By this motion thus linear movement would occur.

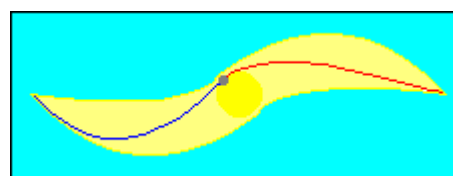


As bending is possible only into two directions same time, this point won't move linear but at circled track (K). Four situations of this movement are shown at this picture at C to F. Following animation visualizes this movement's process by some pictures in motion.

Also here is obvious, not only ether points near centre are in motion, but all points at connecting curves are dislocated (and all neighbouring points round about, here not marked). On the other hand is obvious, movements are symmetric to centre (by view top down), however not symmetric to straight line between opposite points of resting ether (quite left and right side). Area of movement of this connecting line as a whole is marked by light yellow.

Additional or Essential

Within medium of particles (e.g. gas or water - or within nothing), balancing areas like these would not be necessary. In common understanding, only nucleus of many occurrences is assumed to be material fact. Above this, appearances were called 'long distance effects' or 'mutual interaction' or 'physical field' of different kind. These 'additional characteristics of material facts' are often neglected or not clear defined or even not registered (e.g. like 'para-physical aura').



Within part-less ether however, existence and behaviour of movements at areas outside of nucleus are absolute necessary facts, no additional abstract aspect but

real (mechanical) motion. Within gap-less coherent ether, these processes in wide surrounding areas all times are as essential like movements within narrow core of all motions.

Previous pictures show movements only at two dimensions. Next chapter now are to discuss movement pattern within all three dimensions.

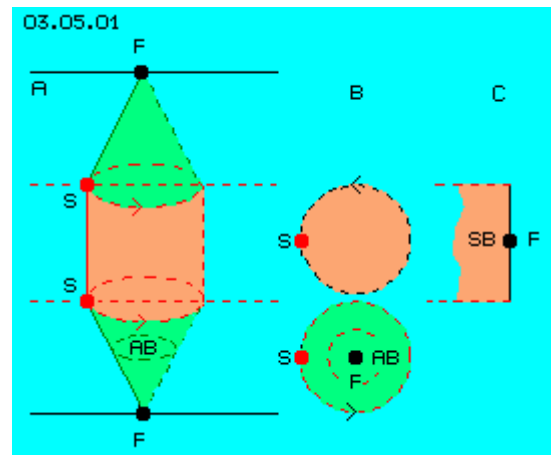
03.05. Circulating Wave

Swinging Disc

At previous chapter 'Swinging Disc' was described, ether behaves like swinging layer at centre of a local ether movement. Also at earlier chapter 'Volumes and Shapes' corresponding circled movement was described. There at picture 03.03.02 were drawn several planes (at G and H) moving relative to each other.

These aspects here are starting points and situation once more is drawn at picture 03.05.01 schematically. At A upside and down layers of Free Ether (F) are marked, i.e. upside and downside of this level, ether is moving only by narrow movements, so here is assumed to be (relative) stationary.

Between these levels a layer (resp. cylinder) is drawn, within which ether is swinging at circled track. Difference between null movement and that swinging motion (S) is possible, cause within each balancing area (AB, German Ausgleichsbereich) circled tracks become smaller, cone-like towards resting Free Ether (F).



At this picture at B cross-section (red) is shown. A swinging ether point (S) of that middle layer moves at this circle. Below is shown view top down onto balancing area (green). Ether points there are swinging at circles of each smaller radius.

Whole middle cylinder (red) thus is swinging relative vehemently. Within gapless ether, all neighbours must synchronously swing analogue kind, so into all sideward directions unlimited area of swinging movements (SB, German Schwingbereich) would result. If however that motion should be locally limited, thus at borders again should exist resting Free Ether (F), round about any limiting border is demanded (like marked schematically at C).

Objective of this chapter now is, which kind of movement's pattern Local Ethermovement must be, so this 'vortex' is embedded within resting ether.

Tilt and Shift

At picture 03.05.02 is shown only conus of downside balancing area. At A observed ether point (red) is located quite left at its circled track. A neighbouring ether point (blue) of this swinging layer (S) is drawn left. Further neighbours schematically are

marked by black horizontal connecting lines, also further down at balancing area (AB) to layer of Free Ether (F).

At B is shown situation after swinging at half circled track. Observed red ether point now is located quite right side, its blue neighbour still is some left. Green marked section of balancing area now shows, all horizontal neighbours keep same position relative to each other. However, connecting lines are shifted relative to each other, i.e. vertical neighbours take other positions relative to each other.

This 'rubbing' between bordering layers (here between vertical neighbouring ether points) however is not possible within gapless ether. So local ether movement can not work that kind. Alternative is shown at this picture at C.

All neighbours at connecting lines between Free Ether (F) and observed swinging ether point (S) move at tracks, which at a whole represent a conus (marked by dotted lines). Now here neighbours are marked right angled to that (conus) line as connecting lines. Lengths of each line mark each diameter of swinging, from top downward each smaller size.

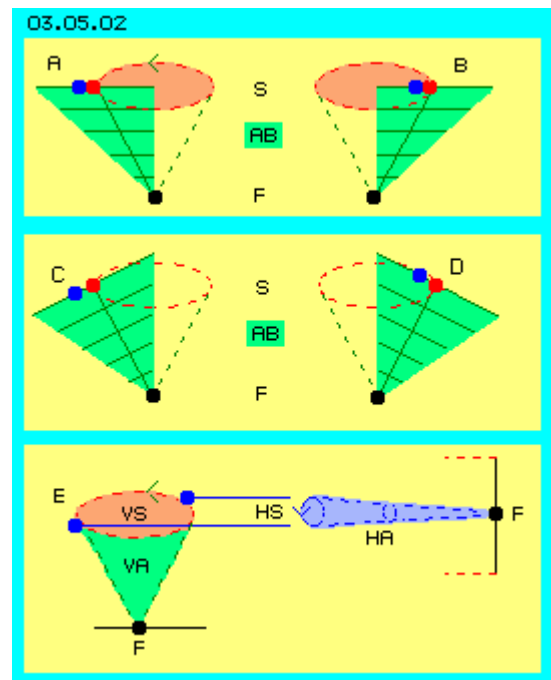
If all neighbours of that conus should keep positions unchanged relative to each other, these ether points would tilt while moving at circled track, like here at D is marked after half turning. This pattern of movement thus is to compare with a tumbling spinning top - however ether don't turn-around but only swings-around. Blue ether point is left and keeps left side of observed red ether point all times.

Local ether movement behaves not exactly like this simple pattern of movements, however this consideration gives decisive hint. Blue neighbour moves at circled track, by tilting movement same time, that ether point takes different levels: left side this point is positioned below and right side it is positioned above its red neighbour.

Lift and Lower

At this picture at E difference of levels (relative to level of Free Ether) is pointed out. Blue ether point is lifted and lowered while tumbling-tilting movement. Again, within gapless ether this movement can not be linear, but can (and must) be done by continuous turning resp. swinging. Lift and sink thus is done while swinging around a horizontal axis.

Besides first swinging around vertical axis (VS) with its vertical balancing area (VA) so now second swinging around horizontal axis (HS) occurs. This additional swinging now can become smaller within a horizontal balancing area (HA), again conus-like into sideward direction - reaching out to Free Ether (F).



Finally by these simultaneous two swinging motions around axis right angles to each other, coarse movement at centre locally is limited towards outer border resp. neighbouring Free Ether. Thus again at least two motions are given within ether, at universal ether movements like now here at local ether movement.

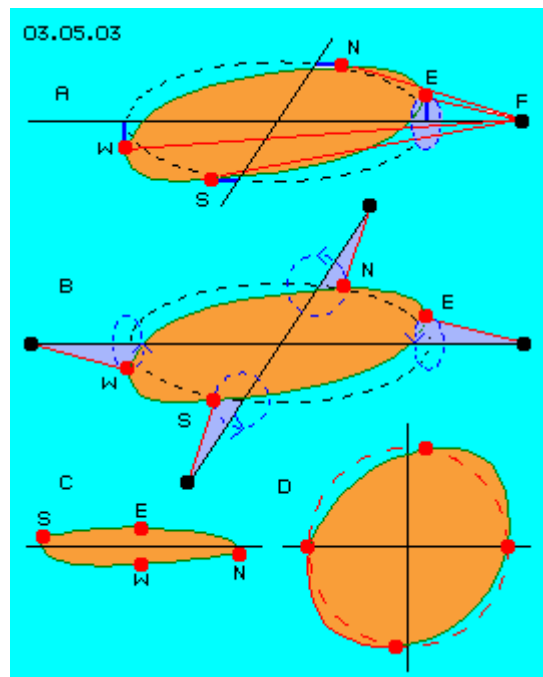
Uneven Track

At picture 03.05.03 this simultaneous swinging is shown. Coordinates are drawn for better orientation. Original swinging movement at horizontal plane is marked red. Swinging movement right angles to that first motion is marked blue. Free Ether (F) is marked by black points. Observed moving ether point is marked red. Diverse positions while swinging movements are marked by east, south, west, north.

At A for example is shown, ether point at east (E) is positioned upside, at south (S) left side, at west (W) below and at north right side, each relative to coordinates. So layer of original circled track (red) is inclined to equatorial plane.

At B is shown each connecting line between Free Ether and swinging ether point at these four positions. By blue triangles is marked, which position that point takes in relation to these coordinates at each situation of swinging motion.

Each swinging around axis is marked by dotted circles, each direction is marked by arrows. By view from outside, all connecting lines swing counter clock-wise. If generally left turning is assumed to be prevailing within universe, so ether at borders of that local 'ether-vortex' would turn synchronously. Further down is discussed, how that 'impossible' embedding of simultaneous movements into gapless ether really works.



Here however at first is to mention further special fact: different lengths of track's sections. If ether point starts at its position at east (E) and moves to position south (S), that point has to go rather long distance from upside of east-axis towards left side of south-axis. From there to position below west-axis, distance is shorter. From west to north distance again is longer, from north to east distance again is some shorter. So swinging around can not occur by constant speed or track of ether point can not be pure circle.

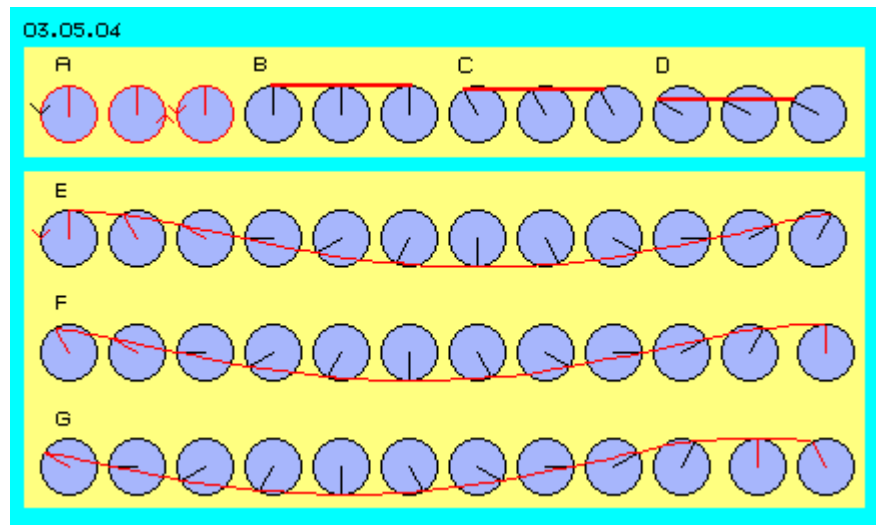
At C is shown cross-sectional view through that 'movements-disc'. At east (E) ether point is upside of axis, at west is downside, at south and north thus ether point can not be exact at level of axis. So track would show shape like border of hat, bended upward one side and bended downward opposite side.

At D schematically is shown, ether point could walk long distances further inside and make some 'excursions' at section of short distances. Track thus would be no pure

ellipse, but some deformed circle with depressions and extensions. Real tracks of local ether movements will be compromise in shape of diverse spiral track sections.

Wheel or Wave

At previous pictures, this swinging around horizontal axis was symbolized as little blue wheels. It was assumed, wheels would turn left (by view from outside to centre) and turning at all four directions resp. towards all sides by likely sense. Involved problems schematically are shown at picture 03.05.04.

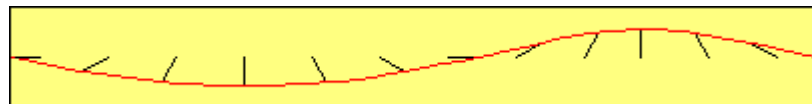


At A are drawn three left-turning wheels, where between wheels counter-turning movements exist (see arrows). So there would come up rubbing within ether. This kind of neighbouring turnings can not exist in gapless ether.

Within ether continuum can only exist relative synchronous swinging movement. By example of wheels this possibility is demonstrated at B, C and D. Three wheels are connected with a rod (e.g. like drive-wheels of steam engine). All three wheels turn same sense, here e.g. from 12- via 11- to 10-o'clock-position, so all points at connecting line swing parallel to each other.

At this picture at E are drawn twelve wheels, instead of previous stable rod now combined by bended connecting line (of neighbouring ether points). This connecting curve is 'mounted' at each wheel at next position (here each hour of clock).

All wheels now can turn synchronously - and connecting line will appear like wave running from right to left, like little animation visualizes. Above this, here once more is demonstrated essential difference between turning-around and swinging movement: turning around an axis is common within material world, swinging at circled track (resp. at overlaid circles of different axis and radius) is exclusive movement's possibility within ether by itself.



This animation also shows clearly, towards outside

appear impressions or occurrences or effects, while their real movement's pattern is quite other kind: here one can see absolutely clear a wave running from right to left - however one must watch exactly to recognize, twelve 'clock-hands' synchronously turn, each at its only small surface. So impression of far-reaching movement really results of ether points motion at only small radius, all same turning sense - however 'phase-shifted'.

Overlaid Turnings

Upside at section 'Uneven Tracks' of picture 03.05.03 was mentioned, sections of track have different lengths. From east to south and from west to north distances are longer than from south to west and from north to east. At previous twelve 'wheels' resp. at wave of previous animation with its bended connecting curve, this problem is not quite obvious, nevertheless these differences exist.

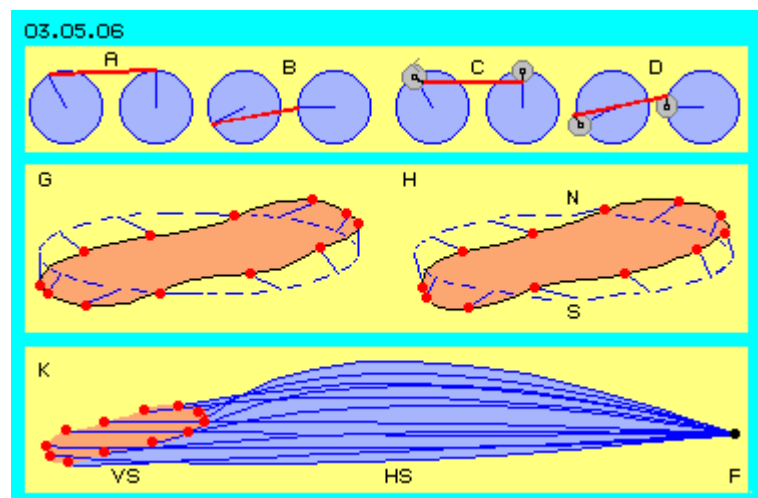
At picture 03.05.06 again are drawn these 'wheels' (blue) and stable connection (red). Connecting line A between 12- and 11-o'clock-positions is much longer than e.g. connecting line B between 9- and 8-o'clock-positions. Within gapless ether movement's process like this is not possible.

At earlier chapter 'Overlays' movement's process of sea waves were discussed and e.g. at picture 03.02.03 (at B, C and D) were shown tracks resulting of two overlaid circled movements.

Here at picture 03.05.06 at C and D e.g. around previous 'fixing-points at wheel' occurs second turning (grey) at relative short radius. This second turning point thus wanders at circled track within space and around this wandering fulcrum exists second synchronous turning (and all turnings occur by constant speed). Connecting lines with sections of continuously same length are to achieve by overlays like this, as shown at C and D as an example.

Roundabout at Roller Coaster

Previous twelve wheels of picture 03.05.04 resp. 'clock-hands' of previous animation, in reality are arranged around centre of swinging plane. Previous wave runs around this motion's centre, as appearance of swinging motion around horizontal axis (HS) and as necessary supplement of original swinging around vertical axis (VS).



Instead of previous two-dimensional drawings, now here at picture 03.05.06 at G previous 'clock-hands' (blue) are arranged at circle (blue dotted). Results are circulating wave (black) with its uneven track resp. 'inclined' disc (red) of motion's centre.

At H result of previous overlay schematically is shown. 'Clock' stays back phasewise, so e.g. at south (S) 9-o'clock-position is not quite achieved and at north 3-o'clock-position is not yet achieved (by this turnings counter-clock-wise). At phases between, clock is 'running faster', so as a whole all sections are of likely length.

An other possibility for balancing of differences of connecting lines is also drawn here. 'Clock-hands' not at all must stand right angled to equatorial plane, but could

be inclined towards inside / outside. Upper border of this band around centre here e.g. is tilt some towards left. Even while circulation, tilting angles could change (and will in reality change continuously and will in reality show much larger angles than drawn here).

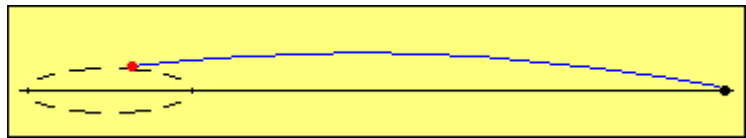
Swinging Connecting Line

At this picture at K, once more inclined uneven track is drawn. At centre of this local movement (red) can exist no pure circled track and also no pure elliptic track. There are at least one swinging around vertical axis (VS) and (phase-shifted) swinging motions around (many) horizontal axis (HS) overlaying.

Connecting lines (blue) between observed ether point at centre and one point (black) of Free Ether (F) can be no straight stable line (like assumed simply at previous conus-like motions). Most similar movements do ether points neighbouring at spiralic bended connecting lines.

At this picture at K a bundle of diverse shapes of connecting line are drawn. While one turn of central ether point at previous inclined track, connecting line could change by these shapes (resp. in principle must change that kind). All points at this connecting line do similar movements, thus not only are swinging around their horizontal axis, but are moving same time to left resp. right. So not only within centre is motion, but roundabout is heavy motion, all times into all three dimensions. Into direction of Free Ether however, distances of local movements become shorter, i.e. swinging is faded towards outward 'border'.

This simple animation visualises steady changed winding of connecting line. Observed ether point (red)



phasewise moves upside or downside of equatorial plane. Its distance to Free Ether becomes shorter and longer, equalized by bending and winding of connecting line (like shown in details next chapter). However, movement at centre is overdrawn extremely, while in reality balancing area towards Free Ether is extreme large in relation of minimum motion within centre, by millions and billions).

Symmetry and Asymmetry

One can see, there is no complete symmetry. Symmetric is connecting line only to point of Free Ether opposite at drawn (X-) axis.

Connecting line cross to X-axis (thus alongside Z-axis) shows other shape and changes by other curves. By this view, e.g. most short and most long distances to observed ether point are not at its position most upside resp. downside of axial plane, but its position aside of Z-axis.

Within plane of this axis-cross thus exists horizontal balancing area around centre of movements outwards to Free Ether. Within this area however, balancing movements are not of unique shape. Only exactly opposite, movements are mirrored analogue. Diagonal to previous X- and Z-axis exists smooth transition of both movement's pattern.

Track of movement at centre is inclined to equatorial plane of this axis-cross, resulting asymmetry of bundle of connecting lines of previous picture at K. Naturally there are also connecting lines by view direct onto plane of movement's centre, thus from point of Free Ether some above of previous animation. This connecting line again will show other shape and some other behaviour.

These fictive connecting lines are theoretically given from all Free Ether around this local movement's centre, thus from any direction e.g. of half-sphere above this axis-cross. At earlier pictures (e.g. at both first pictures of this chapter) were drawn only simple straight connecting lines of conus-like vertical balancing area. Similar movements however also there are not at straight lines, but neighbouring points at spiral curves do likely movements.

At following chapter 'Tumbling Axis' movement's pattern alongside this Y-axis are discussed and which kind connecting lines has to bend and wind in principle.

03.06. Tumbling Axis

Swinging around vertical and horizontal Axis

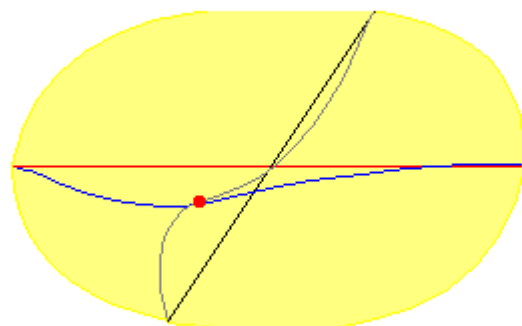
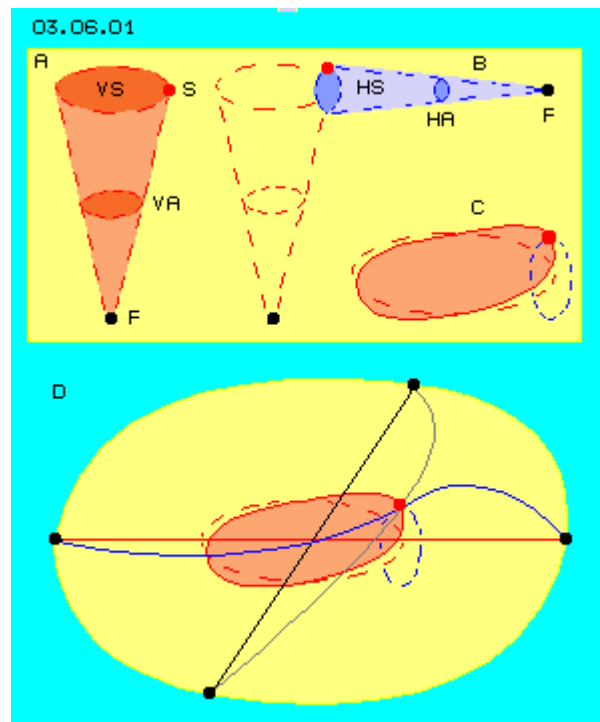
At previous chapter 'Swinging Disc' was described, Local Ethermovement in principle is swinging around equatorial plane. At previous chapter 'Circulating Wave' now was described, not only swinging at plane of equator exists but same time also circling movements around horizontal axis are necessary. At picture 03.06.01 schematically this is shown once more.

At this picture left side at A is drawn observed ether point (S) and track of its swinging (VS) around vertical axis. Below is marked a point of (relative resting) Free Ether (F). Between both points, within cone-shaped balancing area (VA) swinging around vertical axis is fading.

At this picture right side at B is drawn swinging motion around horizontal axis (HS), also with its balancing area (HA) towards a point of Free Ether (F) right side at border of equatorial plane.

At this picture at C schematically is shown, addition of both movements results a track some inclined versus equatorial plane.

At this picture at D are drawn four connecting lines to four points of Free Ether (black). Observed ether point (red) is positioned at its track right side up. Lengths



of distances from this point to Free Ether are different (here extremely overdrawn), resulting different bending of connecting lines.

Left / right, up / down, frontside / backside

At earlier pictures and animations, movement at equatorial plane was drawn left-turning (by view top down). Now is assumed, movement around horizontal axis is left-turning. So resulting of was circulating wave, running clock-wise around centre. Thus at following pictures and animations movement at equatorial plane is drawn right-turning (by view top down).

Within universe exists no left/right, up/down or frontside/backside. This problem is discussed by later chapter 'Movement's Directions' and also reasons, why left-turning is prevailing direction.

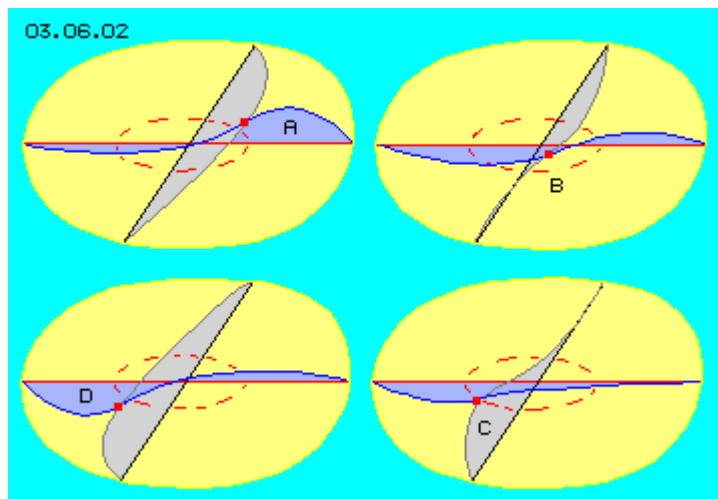
This animation demonstrates approximately, how connecting lines are bended and twisted based on central swinging motions. Into direction of each smallest distance towards Free Ether, most wide bending is demanded, while at each opposite side bending is much more flat.

Right side, observed point is upside of equatorial plane and also bow of connecting line towards right side is bended upwards. Red point then wanders towards frontside, coming to equatorial level, connecting line there shows strong bending left side, thus into turning sense of circulating wave. Some later at left side, this bow moves downward. If red point is backside of picture, bow of connecting line again shows ahead into turning sense (thus there to right side).

So these connecting lines at equatorial plane not at all represent simple cones of balancing areas, but are swinging movements of rather complex kind, into different directions by different shapes, thus not uniform.

These 'wheels' of circulating wave (of previous chapter) thus are not positioned at same level and connecting lines don't swing around horizontal axis exactly.

These connecting lines preferably swing upside of X-axis (here right side) resp. below (here left side). Into directions cross to that axis, connecting lines swing prevailing ahead (into turning sense) of each Z-axis.



Vertical balancing area, up to now was simply drawn as cone with straight connecting lines. Now objectives of this chapter are to detail description of movements alongside vertical axis in principle.

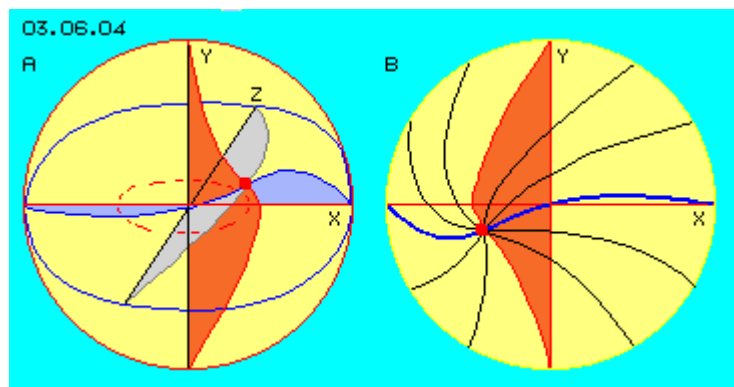
At picture 03.06.02 are shown four still frames of previous animation. At A, observed ether point (red) is positioned upside of X-axis and connecting line there (marked blue) also shows high bow upwards).

At B and C this ether point swings to left side, strong bow of connecting line is shifted ahead-left-side. At D, ether point is below X-axis and connecting line is strongly bended also downwards.

Transport of Material

Original high 'mountain' at A becomes flat hill, original small hollow becomes deep valley at D. Synchronously to circulating wave (of previous chapter) thus 'material' is to shift via 'poles' towards left resp. opposite to right side. Naturally this motion is not done by linear movement to and fro, but also while swinging around vertical axis.

At picture 03.06.04 at A once more previous starting situation is drawn, thus with observed ether point right-upside X-axis. Connecting line alongside this axis is marked blue. Cross to this axis is drawn Z-axis and corresponding connecting line is drawn grey.



Now also are drawn vertical Y-axis and connecting line (red) between 'north- and south-poles'. If actually ether volume is at 'blue hill', material had to be lifted from downside, thus (red) connecting line downside shows bow to right side. Opposite, upside of blue mountain, ether volume had to escape, thus upper part of red connecting line is dented resp. bended to left side.

At this picture at B, observed ether point has moved to left side. There is drawn blue connecting line (now with valley left side) and also red connecting line (alongside Y-axis). This vertical connecting line at its upper part now is bended left side towards deep valley, while lower part of connecting line is dented to right side.

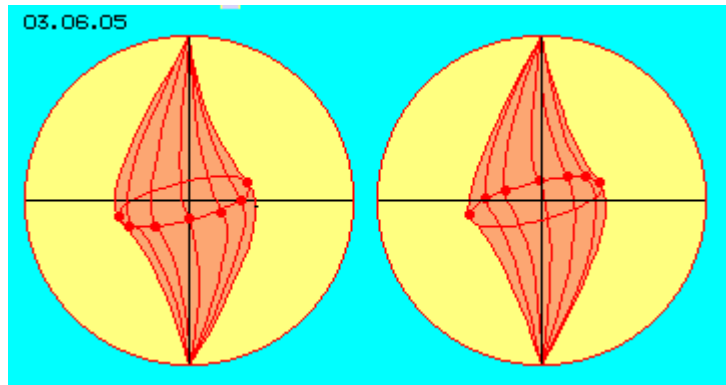
Naturally, connecting lines exist from all points of Free Ether towards observed point. Here are drawn (black) only some lines at this X-Y-plane between blue and red connecting lines. So at previous 'transport of materials' is involved total surrounding area, practically a sphere-shaped space of Local Ethermovement (of which here is drawn only cross sectional view onto X-Y-plane).

Rolling around vertical Axis

At picture 03.06.05 space of Local Ethermovement is drawn as yellow sphere by diagonal view onto central, inclined plane of movement's track. Pointed out (red) is movement only around vertical axis (however extremely overdrawn).

At this picture left side are drawn positions of observed ether point while its motion at frontside, at this picture right side are drawn its positions while moving at background. There are drawn each bended connecting lines.

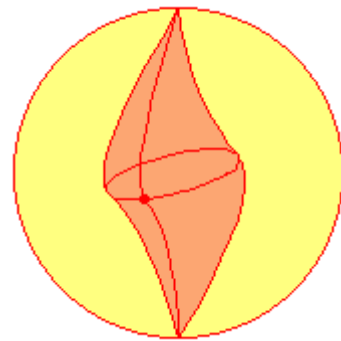
At this animation is visualized, how this observed connecting line changes shape while rolling around. This line keeps constant length (appearing here by different lengths only by over-drawing and perspective). While swinging around vertical axis, connecting line however shows steady changing bending and winding.



Instead of earlier linear connecting lines within cone-shaped balancing area, thus now appear tumbling motions around vertical axis. Only by these complex movements, whole volumes of ether in motions is shifted that kind, previous described central movement comes true, so locally limited Bounded Ether can exist.

Potential-Vortex-Cloud

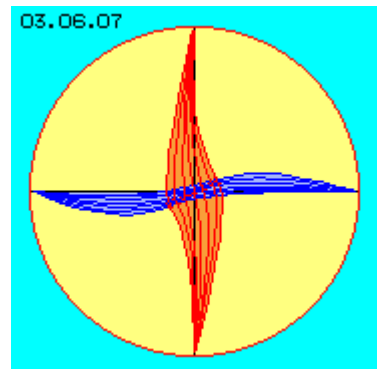
At picture 03.06.07 is shown X-Y-plane once more, now by view direct onto Z-axis. Central movement of observed ether point now is drawn some smaller (really however, it is smaller by millions in relation to circumference of whole Local Ethermovement).



Again here are drawn connecting lines alongside X- and Y-axis with their different shapes and positions. Corresponding animation visualizes movement's process of both lines.

By considerations of this and previous chapter, thus essential principle of Local Ethermovement results following points of view..

At centre exist swinging movements at relative large tracks. This track results of at least two overlaying circled motions right angled to each other, thus track is inclined versus equatorial plane. Resulting movements are not symmetric and uniform round about centre. In general, wave circulates around centre at equatorial plane, resulting of phase-shifted circled motions. However also fulcrums of these circles are not everywhere at same level and radius vary while rotation (resp. are mixture of overlaying circled motions by itself).



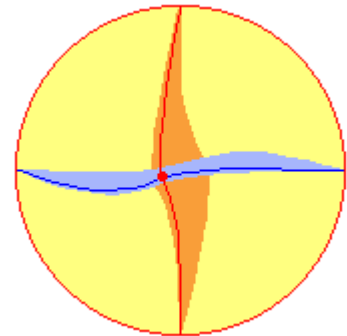
Again some other shape shows twisting motion around vertical axis, in order to shift resp. equalize ether volumes of mountains and valleys of wave. Between movements at horizontal plane and movements around vertical axis, movement's pattern merge smoothly one into another.

There is motion not only at centre but also within wide balancing area around, practically within large sphere reaching out to (relative resting) Free Ether. Near centre, movements are running at relative stretched tracks, while movements occur

at each smaller radius towards periphery. As a whole, ether volume in motion is extremely larger than volume-part of centre.

As I called Universal Ethermovement running at 'Spiral-Cluster-Tracks', now Local Ethermovement analogue is to call 'Potential-Vortex-Cloud'. Opposite to rigid vortex (maximum speed at periphery e.g. like at wheel), potential-vortex shows most intensive motion at or nearby centre, e.g. like whirlwind etc.

Potential vortices like these are rather flat (e.g. tornados) or are flowing vortices (e.g. like outlet of bath tub). Local ether movements however are round shaped, so these vortices are spheres. As inside however exist most different 'flows', I prefer term of 'cloud' (even not comparable in total). So here term 'Potential-Vortex-Cloud' is used equivalent to Local Ethermovement.

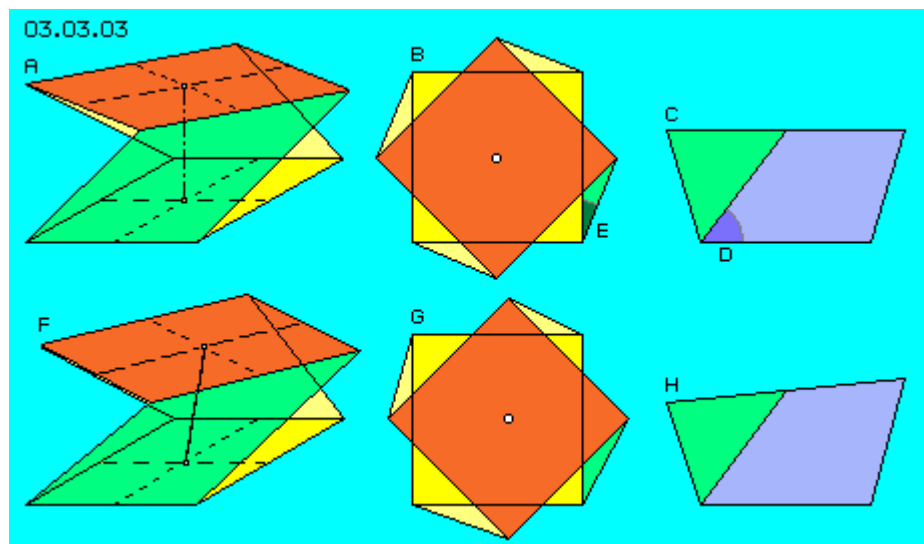


These complex pattern of movements demand bending and winding of ether within ether. That's not easy to imagine within gapless ether. So at following chapter 'Bending and Winding' are discussed possibility like necessity of this kind of movements in details.

03.07. Bending and Winding

Twisted Cube

At earlier chapter 'Volumes and Shapes' was discussed general possibility of local ether movements by example of cube. Lower and upper surface of cube were shifted by 45 degrees, edges between show diagonal, also by some 45 degrees.



Movement can only occur, if upper and lower surface are twisted more or less, while same time inevitably all surfaces become differently inclined. Central axis though several of these cubes thus would become bended.

This possibility of movements was demonstrated by picture 03.03.03. It was resp. is reported, ether should be 'as hard as steel' (in order to transport light). If this cube would be build by steel-rods, this grid would allow corresponding movements (by

minimum flexibility within joints). In general however, this first deduction of local movements is too 'stiff'.

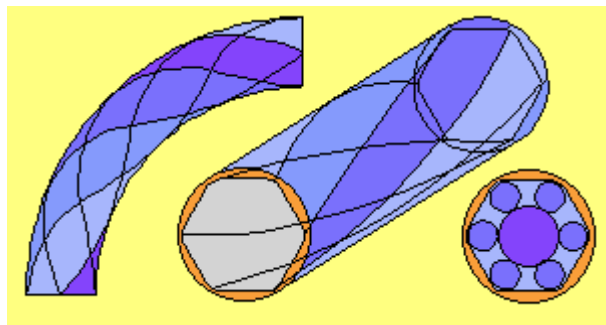
Potential-Twist-Pipe

At the other hand, ether was and is often compared with fluids and possibilities of its flows. I made intensive researches concerning these problems at my 'Fluid-Technology', developing e.g. special shape of pipes. Following picture demonstrates essential aspects of this invention.

Common shape of flux within pipes represents self-blocking system. Especially large losses of throughput are based on commonly used bows of pipes. Inner curve is shorter than outer curve, so inevitably comes up turbulent flux, i.e. movement ahead is reduced decisively.

These losses by resistance are to avoid only by twisted flow within winded pipes. Then sections of movements at spiral tracks are of same lengths even within bows (by one rotation within bow).

This shape of flow e.g. is to achieve by six-edged pipes with rounded edges and whole pipe twisted around longitudinal axis. Within edges come up cylindrical side-flows, at which central flow rolls ahead like at 'ball bearings'. Main stream has no direct contact to wall, thus practically without any friction moves ahead - also through bows (resp. just there comes up optimum shape of potential-twist-flow). So I called this type of pipes 'Potential-Twist-Pipes'.

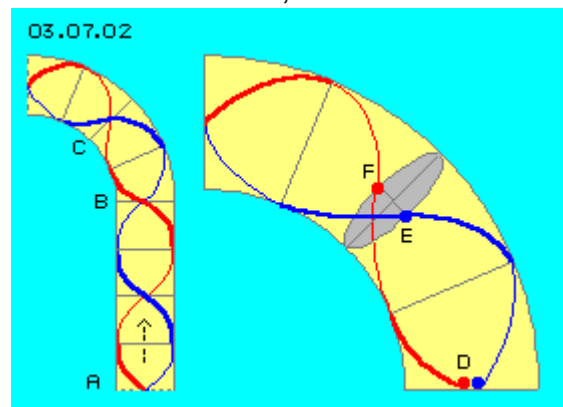


Tilting Water Surface

At picture 03.07.02 twisted spiral tracks (red and blue) are shown once more. Cross-lines mark each 90 degrees of turning around longitudinal axis. Sections of tracks at frontside are each drawn thick, sections at backside are each drawn by thin curves. Tracks like these resp. all molecules moving these ways, in general are called 'flow-threads', thus comparable to term 'connecting line' used here.

At B these water molecules start moving into left-turning bow. Red curve at first runs at bow's inner side, thus is some shorter than corresponding section of blue curve at outer side of bow. At second part of bow, relations are vice versa, so at end of bow both water molecules did run ways of likely lengths.

At this picture at right side, this bow is drawn once more by larger scale. Water molecules at straight part of pipe move by same speed. So it is to assume, molecules at D want to go on moving by constant speed. This means however, blue water molecule at its longer section of track won't come ahead (to E) as far than red molecule



at its much shorter track (to F).

At start of bow, 'water surface' between both molecules is cross to pipe (right angles to longitudinal axis). At the middle of bow however, this water surface (marked grey) is tilted versus longitudinal axis. So while moving through bow, water surface 'slops' to and fro even by this optimum shape of flux. This motion could be avoided (and thus could be achieved real steady motions) only if bow is not bended only towards one side but bow would show spiral shape into two directions same time.

No Comparison

Comparison of water and its flux with ether and its possibilities of movements does not fit by diverse sights. Water is material occurrence and exists by parts. Within 'flux-threads', water molecules are neighboured and do likely or analogue motions. Between water molecules is 'nothing' (by common understanding), so whole flux-threads can shift alongside each other without problems. So previous water surface can tilt, water molecules of motion running ahead and these of movement behind simply take other positions relative to each other.

Here however, ether is assumed to be gapless coherent unit, without any space between parts, so ether points all times keep direct neighbours. Within ether, one point can not rotate around an axis, like water molecules here 'dance' around longitudinal axis of pipe. Ether points all times keep at same side of neighbours can only swing parallel to each other, by more or less speeds.

So this comparison could only point out, each bending - also of fluid particles - synchronously demands tilting right angled: here longitudinal axis is bended to left side and resulting of is tilting backside-up and frontside-down of water surface. So this inevitable synchronicity of movements into two directions right angled to each other, not only exists at previous construction of 'steel-grid' (of that twisted cube), but also within liquids (and gases, with which ether often is also compared).

Grave difference however is, material parts can wander through space long distances, e.g. water can flow through previous pipe or within rivers for thousands of kilometres, or e.g. air can run around whole globe. Ether however is 'locally resting' resp. moves swinging only at relative limited areas, whole Free Ether only at quant-small Universal Ethermovement, Bounded Ether only within locally limited 'Potential-Vortex-Clouds'. So local ether movements are not to compare with flow of water through previous pipe. However pipe by itself is to compare with ether movement, e.g. like 'pipe' in shape of elastic tube is to wind and to twist.

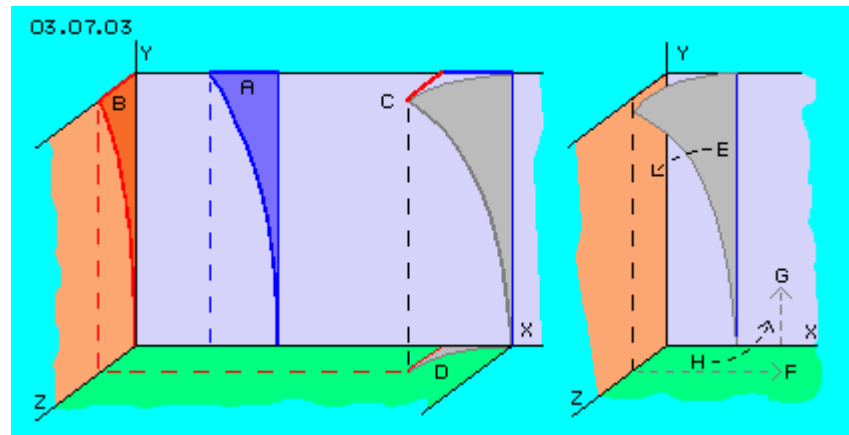
Right Angles

At picture 03.07.03 once more these coupled motions are demonstrated schematically. Space is marked by X-, Y- and Z-coordinates. An originally straight connecting line is bended to left side (marked blue) at A.

By previous considerations, that 'tube' is to bend only if same time it's bended right angles to this direction. This second bending within Z-plane here at B shows forwards, thus right angled to first bending.

At C is shown addition of both bendings. As bending increases from bottom to top, spiral line results, thus also bended curve within third dimension exists same time (as marked at D).

This three-dimensional bending (from original vertical straight connecting line to grey, three dimensional curve) is drawn once more at this picture at right side. Bending results shorter distance between X-axis and upper end of curve (what's demanded for central swinging of Local Ethermovement).



Process of this bending thus is result of synchronous movement towards left-ahead-down, like marked at E. Bending however also results, at inner side of curve now is 'too much ether', while at outer side of curve is 'too less ether'.

Thus in principle, same time ether has to move off Z-axis towards right side (F) and ether also has to move from X-axis upwards (G). Again both movements are done synchronously at spiral track towards right-back-upwards, as marked at H.

Within gapless ether a spiral first movement (E) thus can only occur, if again by right angles second balancing spiral movement (H) occurs same time. This necessity of balancing movements, e.g. at previous chapter was recognized and discussed as swinging movement around vertical axis.

No single ether point can move without synchronously moving other ether points, at the one hand by analogue motions of direct neighbours, at the other hand by balancing movements also of neighbours rather far, at any case at spiral tracks, at any case by motions right angled to each other. No single ether point of these Potential-Vortex-Clouds is to stop, without all points of total motion's system being involved.

Double-Helix

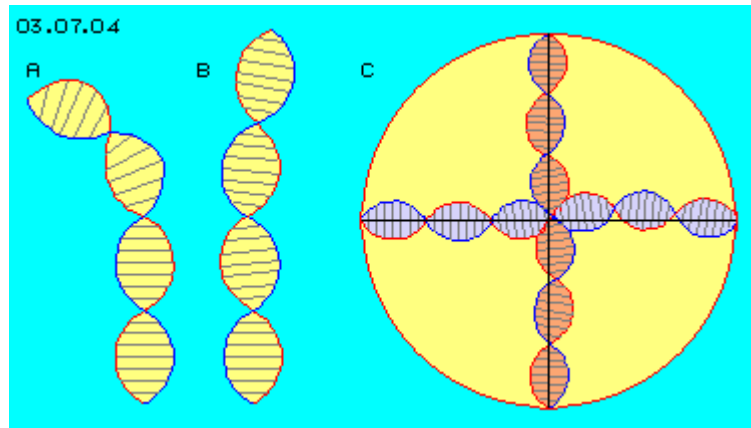
Long times after I developed idea of Spiral-Cluster-Tracks of Universal Ethermovement, I recognized striking likeness to cluster structure of DNA. Previous spiral tracks of both observed water molecules with their twisted motions now remember at winded band of DNA.

At picture 03.07.04 at A these spiral tracks are drawn once more, here now without pipe, but with cross-lines between both curves. This double-helix practically represents standing picture of fluid-flow or analogue represents picture of connecting lines of ether points (which are nearby stationary).

At this picture at B is shown e.g. how that 'elastic tube' could change its shape. As mentioned above, distances between starting- and end-points varies depending on

bendings. As also mentioned above, each bending can occur only into two directions same time. Lastly becomes obvious, near 'nodes' areas become more narrow or wide, thus previous balancing motions are demanded in addition.

At considerations of previous chapters, connecting lines were simply drawn as straight lines or simply bended curves. Naturally within ether are to observe all neighbours of straight lines. However only neighbours of bended lines do similar motions.



At this picture at C, as an example is drawn Potential-Vortex-Cloud (yellow marked sphere) with connecting lines in shape of double helix. Central ether point again is some upward-right from coordinate's zero-point. Connecting line to right side thus shows 'hill' while left side shows some depression. Also corresponding to previous chapter, here is drawn vertical 'tumbling axis' with its balancing swinging motions.

Loops and Eyes

This picture won't claim, movements within Potential-Vortex-Clouds run by pattern of double helix. This picture however well visualizes, swinging movements of connecting lines not at all will occur at only simple spiral curves but connecting lines well can show overlays of diverse circled motions.

At earlier chapter 'Overlays' was mentioned e.g. by picture 03.02.03 which variety of movement's pattern results by overlaying only two circled motions, only by varying turning speeds, turning directions and radius.

So connecting lines from Free Ether to centre probably won't take most short way but will build loops or even 'eyes' (e.g. like at rope turned unsteady or e.g. one can see at 'trunk' of tornados resp. water vortices). It's also quit sure, connecting lines from centre to different directions of periphery are rather different resp. neighbouring ether points at comparable positions within Potential-Vortex-Cloud must not and will not behave same kind.

Common to all Local Ethermovements is only that principle of movements within Potential-Vortex-Clouds described here: at centre exists most intensive swinging motion, towards outwards motions weaken, all movements occur synchronously into three dimensions same time, 'astronomic' large balancing areas are demanded (as obviously by relations drawn here these movements can't occur, but well in relations of one to millions).

Within this general movement's pattern no total symmetry exists, opposite each Potential-Vortex-Cloud will be really individual. This point of view will become obvious by view at real existing appearances of Local Ethermovements at following chapters.

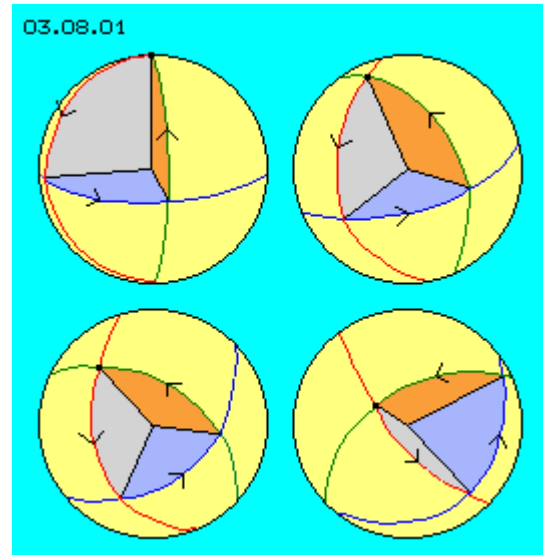
At first however, at next chapter 'Movements-Directions' is to discuss problem of directions within universe.

03.08. Movement's Directions

All Times Leftside

At part '02. Universal Ethermovements' was assumed, universe would be all times in motions, all times at spiral tracks, by quant-small dimensions, all times turning left.

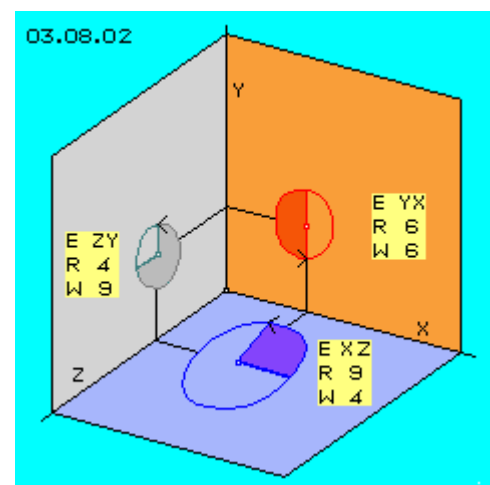
There at chapter 'One-Two-Three-Four' at picture 02.10.02 I did show this motion resulting of three circle movements each right angles to each other, where these three 'bands of frequencies' exist four times, each shifted to each other by 22.5 degrees. Also there at chapter 'Summary' this principle of movements is shown by picture, her shown once more by picture 03.08.01. At this picture each three circled movements are drawn onto four spheres.



I did imagine riding at grey curve (from north pole to equator), than changing left hand to next motion (at equator towards east), once more 'changing trains' left side (back to north pole). Instead of that one-after-the-other, movements occur synchronously and I suggested (resp. did hope) thus previous spiral tracks of curves would result, more or less bended, however all times in principle left turning.

This combined motion's character should be unchanged, if movements turn different speeds (by angles speeds in relation of 4-6-9) at radius correspondingly shorter (by relation of 9-6-4), cause absolute speed of all movement's parts thus are likely.

At picture 03.08.02 these movements schematically are marked by 'clocks' at three planes (E, German Ebene) of coordinate system. All clocks turn left (counter clock-wise), where e.g. movement (blue) at XZ-plane runs angles (W, German Winkel) of 120 degrees at long radius (R), movement (red) at YX-plane by same time unit turns 180 degrees at radius some shorter, while same time at ZY-plane already 270 degrees are done however at short radius (grey).



Directions in Universe

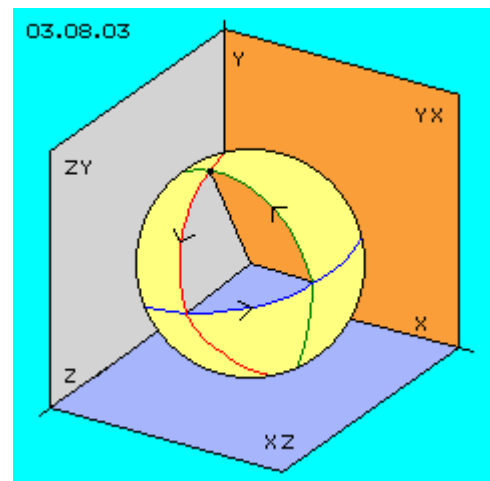
Like shown at chapter 'Animations' colleague Raymond Ami wanted to check my statements and therefore made extensive animations. He found my 'points of view' not confirmed in any case resp. not precisely defined, thus not valid in general.

Depending on angles speeds, radius, left- or right-turning direction and starting positions (phase-shifting) of basic turnings, most different tracks did result. Even not by view of 'driving observer' steady left turning was to recognize - while question came up how to describe directions in general.

Indeed, within universe exists neither left and right nor up and down, neither front- nor back-side. There is only motion, from given place to any other spot in space. For example, what's called left-turning looking from frontside occurs right-turning from backside. So all descriptions of directions are most relative.

So once more gets obvious, only movement of ether is really real fact. 'Space' and thus all directions within space are pure abstract mental tools for describing these movements and to communicate about. Depending on each fictive location within universe and chosen point of view, descriptions of directions are different resp. relative.

Clear descriptions are only given when viewing towards universe from constant point of view and into same direction all times. So answer for question about directions within universe is shown by picture 03.08.03: zero-point of fictive coordinates system must be positioned at 'most far corner left side down of universe' and all descriptions are to make by diagonal view onto that zero-point - while question still is, where to find that point left-down-back of universe (here symbolized by globe cut open).



Concrete answer for this problem is: process of movement is well to describe in relation to a fictive coordinates system, however direction of view must be constant from one point of view. By this agreed fictive view e.g. one can state correctly, all three 'clocks' of picture 03.08.02 are left-turning. If addition of these three motions still would be left-turning - also Universal Ethermovement - by this agreement of fictive point of view - could be called left-turning in general.

Effect of Overlay

So it's to check what's resulting of addition of three left-turning circled movements: steady left-turning or prevailing left-turning - or no dominating direction of movements. At picture 03.08.04 are show two of previous 'clocks' one above the other, e.g. only clock of YX- and XZ-plane. Both planes have X-axis as common border.

Different X-values result depending on each position of turnings. By addition of actual X-values of both turnings results each actual position of observed ether point resp.

results its track within space. Here is looked only at development of X-coordinates (cause all other relations behave analogue).

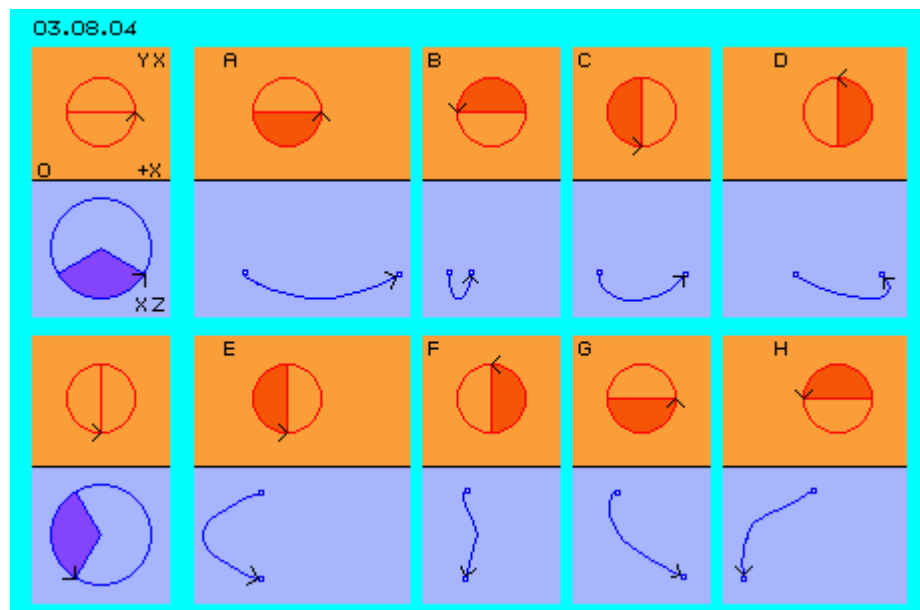
Starting point at this picture is left-turning at blue plane and it's pointed out effect of overlaying movement of red plane. While one time unit, blue turning does 120 degrees, while same time red turning does 180 degrees.

While whole process of movements, both sections of turnings occur by different phase shifting. Here at upper row (A to D, red and blue) is assumed, phase of blue movement is circled bow downside from left to right side (120 degrees long). This starting position is fixed at the following (concerning that upper row), so changes of track are to compare with original track.

Prevailing Left

At A, red motion is at analogue phase (but 180 degrees long), so blue curve is stretched. At B, red phase is contrary, so blue curve is pressed together. At C, phase of red movement is shifted by 90 degrees, so blue curve at first is compressed and later on is stretched. At

opposite situation at D, blue curve at first is stretched and later is compressed.



Original blue track in shape of circled bow, thus is deformed into curves of different shapes, however characteristic of left-turning movement in principle is untouched. So if slow movement at long radius runs 'parallel' to X-axis, left-turning still is prevailing even this motion is overlaid by faster turning at shorter radius. This statement analogue is valid at opposite situation, e.g. blue motion is mirrored and running upside alongside X-axis from right to left side.

At second row (E to H) of this picture, now blue phase is shifted by 90 degrees, thus blue motion runs 'cross' to X-axis at circled track from downside upwards. Again effect of overlaying red motion at four different cases is shown (and again only X-values are observed).

At E, red motion is in likely phase, so blue circled bow is distorted resp. stretched to left side. At F, red motion is at contrary track, so blue curve is depressed towards right side. At G red motion is shifted by 90 degrees and is running towards right side, so original blue circled bow ends far at right side. At H however, red motion runs to left side, so blue circled bow is opened to left side.

These eight situations show only some of many possible combinations of phases of both movements and resulting curves here are marked only in principle. However, only situation F shows clear discrepancy to general character of original left-turning (depression of curve is right turning at its second part).

These examples are not complete cause only one coordinate was observed and overlay of third motion was not included. Nevertheless can be stated: general character of left-turning of movement at long radius is unchanged and interrupted only by some phases of clear right-turning motion.

Overlay rests Overlay

Overlays of three-dimensional movements are much harder to judge than overlays at only two dimensions. If for example an oscillograph shows a wave wandering from left to right side, character of this two dimensional motion is easy to recognize: towards-right-up/down. If e.g. pretty sinus-curve is overlaid by shorter wave of smaller amplitude, curve becomes more unsteady, especially if once more curve is overlaid again by higher frequencies of even smaller amplitudes.

In spite of all stretched and compressed swinging phases of resulting curve, nevertheless general character still is unchanged: motion still moves from-left-to-right upward/downward. Nothing else can result by overlays within three dimensions in principle.

Nothing else can result, if three frequencies right angled to each other are overlaid by further motions, like e.g. is marked at previous picture 03.08.01 in shape of globes shifted each to each other. Also at these bands of frequencies, basic movement of lowest frequency with its longest amplitude in principle is untouched (however all other swinging movements by overlays not simply disappear).

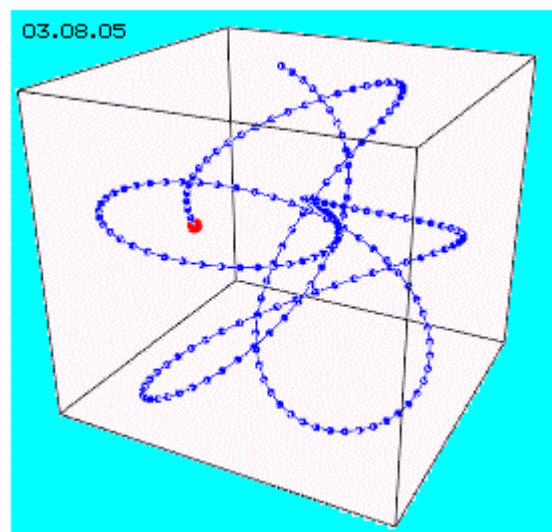
Thus I'll go on assuming, Universal Ethermovement generally shows left-turning character - based at previous defined point of view and inclusive short sections of right-turning movements, however these exceptions clearly are minor part of all cases.

Real Mess

Above this, colleague Raymond Ami naturally is totally right: lastly resulting process of tracks not at all are to describe sufficiently by terms left/right etc..

Already that track rather simple of picture 03.08.05 e.g. shows left-turning motion at front side, merges into loop backwards, further on going into winding and twisting motions - even driving observer at this 'roller coaster' no more would be able to tell into which direction.

At previous considerations were observed only two phases (blue) of circled motion and effects of overlaying second motion (red) by four phases, however only concerning



direction of X-axis. If now third (grey) circled motion would be included, previous sections of track additionally are stretched and compressed into second dimension (Z). However, also these deformations could not result general left-turning character to disappear, so these tracks still could be described by terms of left/right and ahead/back.

If however third dimension (Y) is included, curves start over-turning, loops and horseshoe bends come up, tracks are turned upside down resp. 'inverted' - impression of only-left-turning character gets lost, there is only to view 'real mess' of motions, no more to differ directions.

At previous picture 03.08.04 at upper row, blue circled bow runs 'parallel' to X-axis (X-values vary maximum from -9 to +9, while Y-values vary maximum from 0 to +/-9). At these phases, blue circled bow is stretched and/or compressed, while left-turning character is clearly unchanged. At phases shifted by 90 degrees (at previous picture both lower row), red motions affect blue curve stronger (concerning blue X-values). However also red motion within its plane is left-turning, so also there in principle left-turning results - only relative to that right-angled plane.

Likely facts are valid if third (grey) motion is included. So original blue circled track, at the one hand is stretched and/or compressed, at the other hand is 'over-turned' - again however only by left-turning at planes right-angled to. So that kind, resulting 'loops and eyes and bends' of diverse sections of track prevailingly are left-turning, however relative to each other plane of that fictive space in general.

Analogue is valid within three additional bands of frequencies and lastly complete overlaying of all twelve frequencies. Basic left-turning-components can not disappear, but still will dominate character of resulting motions at a whole. These curves are to describe no longer with simple terms of left/right etc. cause directions then should be related to twelve planes.

Likely or Contrary

We don't stand outside of universe (like at previous fictive point of viewing) but we are included within universe. Universal Ethermovement is omnipresent, we also are 'trembling' synchronously that kind. So we can not recognize these ether movements directly, no matter it's left- or right- or anykind-turning by previous fictive point of view. These swinging movements are directly cognizable only for something that does not perform this movement in general. These are all Potential-Vortex-Clouds with their - at least within centre - quit other movement's pattern.

Also movement's processes within Potential-Vortex-Clouds are to describe by previous fictive coordinate system and chosen fix direction of viewing, e.g. as left- or right-turning (like described at previous chapters). In reality, these clouds 'glide' within Free Ether, i.e. clouds are surrounded and affected by Universal Ethermovement.

By this view from outside onto cloud, thus viewing from most different directions, one can no longer talk about left/right etc.. There are only movements within or at border of cloud, which are likely directed that very moment or actually show into other directions than Free Ether moves that moment in time. These situations (of actual

likely or contrary movements directions) exists really all times, totally independent from any fictive coordinate system or point of view.

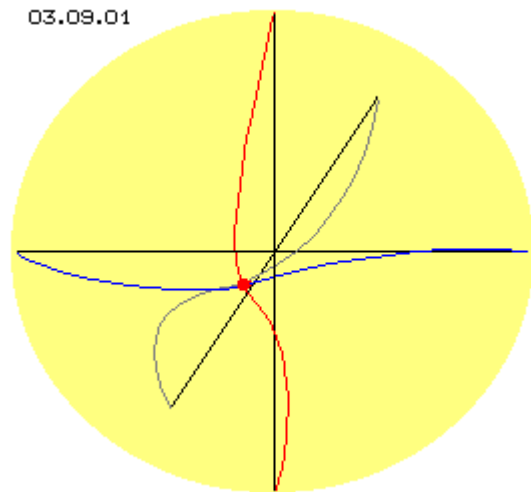
So Universal Ethermovement is cognizable for Potential-Vortex-Clouds, is to detect by differences of movements of Bounded Ether compared with actual movement of Free Ether. This relation however is no longer question of abstract viewing or verbal description, but real affects are resulting off. This 'motor' of steady motion of Potential-Vortex-Clouds is discussed at following chapter 'Movement's Drive'.

03.09. Movement's Drive

Variable Pattern of Motions

At previous chapters were described movements within Potential-Vortex-Clouds. At picture 03.09.01 this 'cloud' is marked yellow, left side at picture are drawn three axes (black) of coordinate system. There are drawn connecting lines (blue, red, grey) between an ether point near centre and six 'ends' of these axes. Right side at this picture by simple animation are visualized swinging motion of ether point and connecting lines.

03.09.01



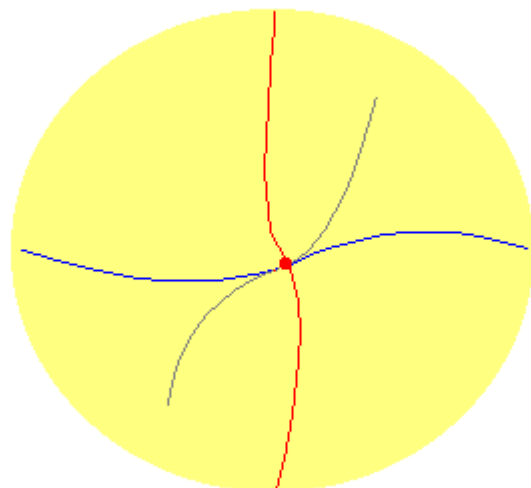
These movements are characterized by a 'vertical tumbling axis' between two poles.

A 'wave' seemingly is running around at equatorial plane, which really results of phase-shifted circled movements around 'horizontal' axis, however with differing characteristics. At diagonal directions (between vertical axis and horizontal plane) pattern of swinging movements are merging from one into the other shape (here not drawn).

Towards outside, so Potential-Vortex-Cloud not at all looks like perfect symmetric unit, but shows different pattern of motions into any direction. Even into same direction, actual shape of motion is changing on and on. Generally valid only is, all movements occur into three directions same time.

Stabile Pattern of Movements

At previous chapter 'Movement's Directions' once more was discussed general pattern of Universal Ethermovement. Opposite to diversified pattern of Local Ethermovement, Universal Ethermovement is uniform, because all ether points practically swing parallel within space.

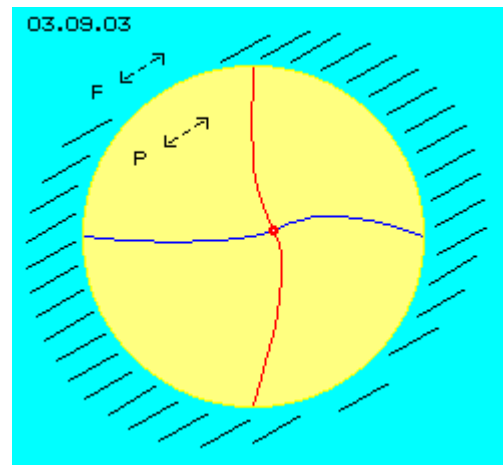


This swinging at Spiral-Cluster-Tracks however is most complex, because resulting of overlays of diverse circled motions of different angles-speed at different radius. It's suggested, all basic circled motions originally are left-turning and lastly also resulting complex swinging motions (at least by majority) are left-turning. That term 'left' however is related to fictive coordinate plane - and by four bands of each three frequencies thus relative to twelve planes within space.

Looking and describing that swinging in relation to fictive coordinate system won't result clear description of directions. Real however and decisive are only direction of each actual movement of Free Ether (at its Spiral-Cluster-Track) and direction of actual movement of an ether point of Bounded Ether (within its Potential-Vortex-Cloud). At outer 'border' of Potential-Vortex-Cloud, both movements meet and actually are likely directed or contrary directed.

Trembling throughout

At first however it's to state, Potential-Vortex-Clouds are no 'foreign bodies' within ether. They exist of same ether like every ether, as ether is single matter of universe in total. There meet no different 'materias', all is of same stuff, which also shows same 'density' everywhere. Ether by itself also shows nowhere different 'heat', because at any location movements are of likely speed ('heat' exclusively is property of material appearances, defined by different speeds of 'parts' relative to each other - however this will be subject of later chapters). The only difference is, Free Ether and Bounded Ether show different pattern of movements, thus meet by differing directions of each motions at mutual borders.



At picture 03.09.03 schematically is shown a Potential-Vortex-Cloud (P) and its internal movements are symbolized by two connecting lines. Around this cloud is Free Ether (F). Instead of its most complex pattern of movements, here simply is assumed, Free Ether is only moving diagonal to and fro.

At earlier chapters I used comparison (fitting only by parts), Bounded Ether relates to Free Ether like ice to water. Transferred to situation here it's obvious, that 'ice/cloud' naturally does same movements in general like all 'water/ether' does. So at first, that Potential-Vortex-Cloud trembles within space (resp. relative to fictive stationary coordinate system) like all ether around same kind.

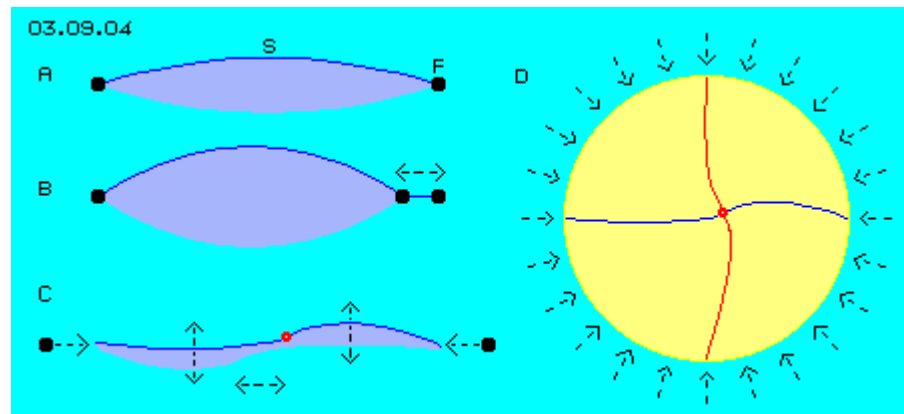
These individual swinging motions within Potential-Vortex-Cloud thus occur only within universal co-swinging. Relative to quant-small universal trembling, relative wide-reaching swinging of Potential-Vortex-Cloud is 'strange' indeed. At this chapter now is to check, how transition of that small-scale to large-scale motions can function. Above this it's to check, why these local movement's pattern can exist opposite to universal movement's pattern at all.

Movement's Pressure

At picture 03.09.04 at A schematically is shown connecting line (S, blue) by simple

swinging motion inclusive its area of movement (light blue). Free Ether (F) at both ends of that 'violin-string' swings comparably minimum distances, so here marked as (nearby) resting ether point (black).

If swinging of connecting line at that very moment occurs into direction corresponding to actual motion of Free Ether, synchronous swinging for short moment is possible. As soon however motion of



connecting line is other kind than Free Ether moves (or even opposite to), resistance comes up. Bounded Ether there can not carry out that motion, only some further inside of previous given 'border' this motion is possible. Outside of that border, 'whole universe' moves at its Spiral-Cluster-Track, i.e. effects of this actual contrary motions can only occur inside of Potential-Vortex-Cloud.

By comparison of previous violin-string would result situation marked at B: fixing point between string and support is shifted a little bit towards bulge of swinging (here towards left) - with known consequence of 'higher tone'. If however actual swinging motion of Potential-Vortex-Cloud again runs conform to universal movement, this limitation disappears, i.e. at this comparison fixing point of string would shift vibrating to and fro.

At this picture at C, previous effect is transferred at bended and winding connecting line (blue) of previous pictures. Available area for swinging motions periodically is shortened from both ends of connecting line. If connecting line has only short distance, its spiralic shape is to adapt, e.g. like discussed at earlier chapter 'Bending and Winding'. Amplitudes of swinging internal of Potential-Vortex-Cloud thus become larger, there comes up stronger amplifying of movements at outer areas and also of central swinging motions (marked by double arrows).

At this picture at D, complete cloud schematically is shown. This 'pressure' periodically is given from all sides of sphere. From different directions and at different times, Free Ether resists versus actual motions within Potential-Vortex-Cloud, i.e. only further inside necessary balancing movements can occur. So by surrounding 'massage' Free Ether continuously drives and pushes internal movement's processes.

It's open question (at least at the moment), why and how first time in universe came up a Potential-Vortex-Cloud, however its further existence is well to explain. Nevertheless its existence is not save for all times resp. can be stable only by certain conditions.

Borderless

Spiralic bended tracks are hard to judge visually. At picture 03.09.05 thus simplified is assumed at first, tracks will occur at six-edge track. Here view from outside into Potential-Vortex-Cloud is shown. So these hexagon marks cross sectional view of swinging of connecting line.

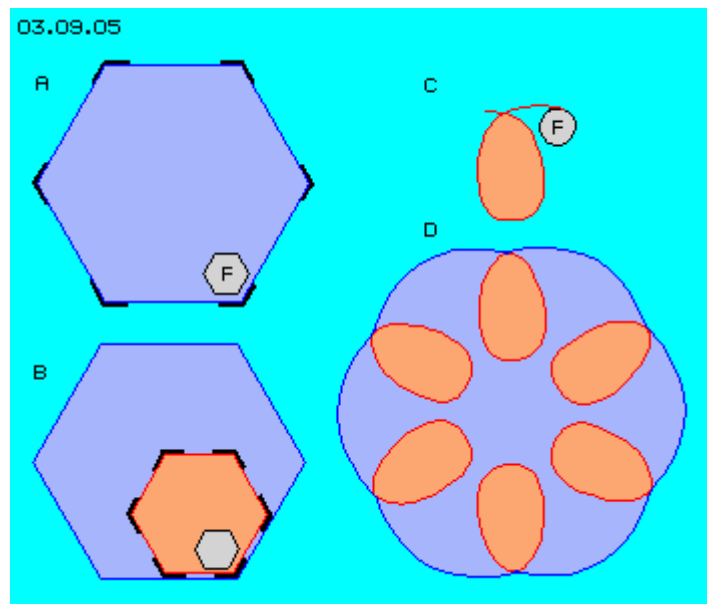
At A is marked wide range of swinging of connecting line by large hexagon (blue). Small hexagon (F, black) represents much smaller swinging area of Free Ether. As here is assumed constant speed of all motions, Free Ether would rotate six times within its hexagon-track while Bounded Ether runs only once at its large hexagon (by this relation of edges of one to six at this example).

Likely sense of both motions are rather short before and after each edge (marked black). Between these sections, large motion is running straight ahead, while small motion already runs into other directions. So within these phases both motions are not synchronous, thus Free Ether would affect resistance versus motion of Bounded Ether.

This example is rather simplified. In reality, Universal

Ethermovement occurs at its rather complex Spiral-Cluster-Tracks. However, also all motions

within Bounded Ether occur into all three directions all times. This example thus can only show, there is no abrupt transition possible between small-area- and wide-area motions. There can't exist 'sharp borderline' between both shapes of motions, i.e. a Potential-Vortex-Cloud can never be strictly limited unit with clear defined outer border surface.



Smooth resp. Gradual Transition

Transition from Free Ether to Bounded Ether can occur only gradually and by most small divergences each step. If for example Spiral-Cluster-Track does two complex loops, same time a connecting line at same track in principle could go more simple, more 'round' resp. more stretched path. Phases of contrary motions thus would become short (and to compensate by balancing movements further inside of cloud), cause soon both path would run parallel again.

Within next step for example, further complex sections of Spiral-Cluster-Track could be 'straighten out'. Movement's pattern of connecting lines thus out there still shown characteristics of Free Ether's motion predominantly. Only step by step further inside of cloud come up each more stretched sections of tracks, until lastly that 'coarse' swinging pattern at centre of Potential-Vortex-Cloud results.

At this picture at B this gradual process is sketched - again only by schematic example. Small hexagonal-tracks motion at first merge into tracks changed only little

bit, still showing many sections conform to original track. Further inside of cloud this process is done several times, at this example thus lastly resulting large hexagonal track.

Overlaid Swinging

At this picture at C and D is shown once more this sight from outside radial towards centre of cloud, thus by cross-sectional view of swing-area of a connecting line. Now however connecting lines are drawn as bended curves, thus essentially more realistic than previous examples by hexagons.

Movement of Free Ether (F) here is marked as simple circled motion. By first step (C) this circled track could be stretched to larger loop (red). At further steps (D) these loops could swing around an axis (also reaching from outside into cloud), so lastly results wide-range swinging (blue) of connecting line.

This overlaying of small swinging motions by its wandering at larger circled tracks is quit essential element. By view from outside to centre, connecting lines build 'eyes' resp. their path towards inside build loop-shaped spiral curves. Similar to that occurrence e.g. were mentioned connecting lines in shape of double-helix at previous chapter. Opposite to that steady shape of spirals, by view of gradual transition these amplitudes would be unsteady resp. increasing towards inside.

Smooth transition at 'border-areas' of Potential-Vortex-Clouds lastly can only come up by multiple overlays. Most small swinging motions, only minimum larger than Spiral-Cluster-Tracks, overlay towards inside steady more swinging motions. So connecting lines will swing not only around one axis, but are made up by swinging motions around many axes, where each axis by itself wanders around the other.

At earlier chapter 'Circulating Waves' was shown, connecting lines swinging left-turning and phase-shifted around horizontal axis do result appearance of circulating waves. If now connecting lines are not simple curves (like assumed at that chapter) but are multiple winded curves, so also these 'eyes' and loops will appear as wave-like circulating occurrences. Just this characteristic is directly and clear to see by some kinds of Potential-Vortex-Clouds, at other examples of Potential-Vortex-Clouds this characteristic motion is only to deduce indirectly - and both aspects are discussed at following chapter.

Effect and Repercussion

At first however once more these mutual interactions between Potential-Vortex-Cloud and Free Ether are to discuss. At picture 03.09.06 at A are marked a swinging ether point (S, red) of a connecting line and a point of Free Ether (F, black). Simplifying is assumed, both are moving only horizontal to and fro. Different long ways are marked by different long arrows. Motions at the very moment can be into likely direction or into contrary directions. Four situations in principle are possible and shown at rows B to E. Resulting effects are marked by blue arrows between both points.

At B red point resp. its connecting line actually moves to right side and point of Free Ether moves to left side. That conflicting situation was mentioned above, where ether 'suffers stress'. Red point wants to go right side, however is hindered, thus connecting line has to swerve out, here marked by blue upward directed arrow. At this situation, Free Ether works as motor cause reinforcing amplitudes of connecting line.

At C red point moves to right side, now also Free Ether actually moves into likely direction. Also here comes up 'stress', because connecting line wants to move further to right side than Free Ether allows. Also here connecting line further inside must avoid conflict by swerving out (marked by blue arrow showing upwards).

Potential-Vortex-Cloud at this moment affects thrust towards right side onto Free Ether located there, into its actual motion's direction. Thus earlier delay of Free Ether motion (see following situations) is compensated. At the other hand, Free Ether indeed could become some more characteristic of movement pattern of connecting line, as this pressure towards right side in addition with upward component results some more stretched motion (diagonal to both arrows, here right side up).

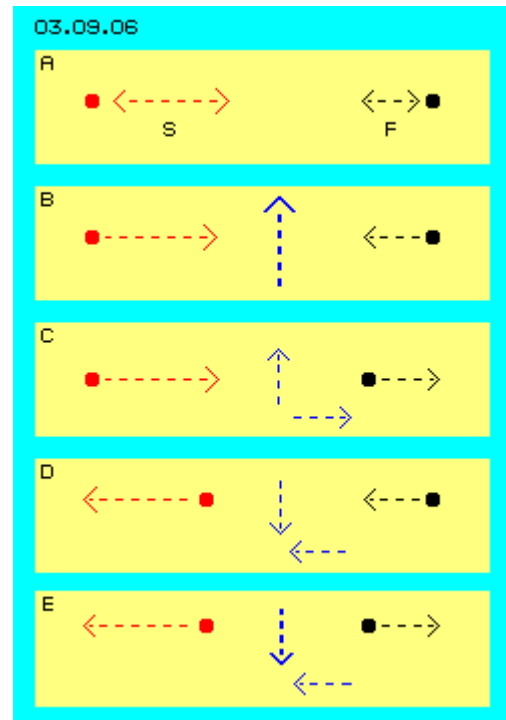
At D now connecting line and Free Ether, both are moving towards left side, only different long ways. Potential-Vortex-Cloud 'affects pulling force' onto Free Ether. Either curve of connecting line becomes even more flat (blue arrow downwards) or however previous adaption of Free Ether's motion (of situation C) now is compensated resp. enforced once more, as this point again swings at track more stretched into direction of both blue arrows (here diagonal down left side).

At E both movements are contrary. Potential-Vortex-Cloud still affects previous 'pulling force', so now straightening of connecting line is inevitable (marked by thick arrow downward). This situation again results more intensive amplitudes, thus enforces swinging motions within Potential-Vortex-Cloud.

Energy

Free Ether works as 'motor' not only like 'buffer' (situation B) affecting stronger bending of connecting line, but also as 'brake system' (situation E) affecting stronger back-swinging resp. stretching of connecting line. Same time pressure and pulling forces affect onto Free Ether, so in total Free Ether's motions at its Spiral-Cluster-Track are not weakened. On the other hand, motion's pattern of Free Ether, gradually from outside to inside by minimum steps, merges into motion's pattern of Potential-Vortex-Cloud.

By these considerations, this 'motor' would work force-neutral. Within these boundary areas occur changes of movement's directions - demanding corresponding input of forces by known physical understanding. However is to remember, e.g.



spokes of wheel affect steady change of direction of motion of mass of rim - without demanding input of forces. Workload of this redirection is done by tension within material of spoke, by cohesion, only by 'passive' resistance, by static 'not-moving' within spoke.

Here within ether exists only steady motion and decisive property of ether is its indispensable cohesion. 'Stress' within ether by pressure or pulling forces thus immediately result changes of motion's directions, while not even friction losses can occur. There is no smallest change of 'energy-amount' between Free and Bounded Ether, at their boundary areas only meet diverse movement's directions, which lastly confirm each other by mutual equal interaction.

Entrophy

By common understanding of science, universe exists of parts (if not defined only by empty-word 'fields'). Within parts indispensably occur losses by friction and lastly 'heat-death' of universe is inevitable (often described by bad term of 'entrophy').

If previous statement of force-neutral drive resp. steady existence of motions within Potential-Vortex-Clouds would not be accepted, consequences would be contrary to entrophy-statement: not tendency to more 'death' but more life. Potential-Vortex-Clouds show more specific movement's pattern up to really individual characteristic. From these patterns can not result new uniform motion of Spiral-Cluster-Tracks (however see below). So only transition of energy-volumes of Free Ether towards more or larger or more complex Potential-Vortex-Clouds could be possible. So universe at a whole would get more diversified structures on expenses of weaker universal ether movements.

Resonance

Previous giving and taking of interactions within boundary-areas of Potential-Vortex-Clouds remembers at resonances. Also by resonance, 'energy-transfer' or transport of movement's pattern occur, without losses (if friction is neglected, which within partless ether can exist not at all). Also within ether all interactions work resonant and harmonic - so not every kind of Potential-Vortex-Cloud can exist steady.

It's merit of Global-Scaling-Theory to point out, appearances of differing size are not equally spread within nature, but exist preferably at 'nodes' of frequencies (within 'logarithmic spaces'). These opinions to 'standing gravity waves' are rather abstract, while I understand this appearance as concrete characteristic of real motions of ether within whole universe (see part 2 of this workout).

This 'selection' of Potential-Vortex-Clouds occurs totally real at their boundary areas discussed above. For example, only if four phases of picture 03.09.06 occur in regular resp. equal sequence, that building-up and mutual harmonizing of swinging movements can be stable. Otherwise this local movement pattern will be 'kneaded' in shape fitting to surrounding motions pattern.

Resonance is well known occurrence e.g. of acoustics, where 'tuning' occurs via medium of air. Resonant appearances are also known e.g. at electromagnetic occurrences, where as medium only abstract 'fields' were assumed. Resonance within ether by itself is based on real substantial motions and is much more compelling, cause e.g. without any loss by spreading or friction (like e.g. at acoustics

inevitably exists). All electromagnetic appearances lastly are real movement pattern of ether, e.g. to detect by abstract 'fields' affecting right angled to each other, i.e. really to explain only by real necessity of synchronous balancing ether movements into three dimensions same time, like described before.

Resonance within ether is so restrictive to delete all movement patterns not-adequate. Their contrary movement phases result extreme building-up of swinging. If at opposite side of cloud exists no adequate balancing pressure, boundary area becomes extreme un-regular shape, so cloud lastly 'explodes' resp. most unstructured movements result.

Some movement phases might be identical to actual motion of Free Ether, i.e. these movements disappear without any effect. Actual contrary motions result balancing movements of diverse kind. Fitting sections of these motions again disappear into motion of Free Ether. Each remaining motion is 'kneaded into fitting shape', until whole disharmonic cloud completely disperses into Free Ether.

This process of dispersion provides no additional energy to Free Ether, i.e. its movements are not accelerated. Movements of original cloud are only deformed by resistance of Free Ether, until lastly all movement sections are (no longer resonant, but) identical to motions of Free Ether. If energy would be lost by that resistance, corresponding amount of energy would be compensated by integration of fitting movement rests into Spiral-Cluster-Track. If this dispersion-process results no energy-surplus for Free Ether - keeping resonant Potential-Vortex-Cloud running on and on correspondingly won't cost energy.

Spiral-Cluster-Tracks of Free Ether result of many overlays, i.e. consist of many adequate sections of motions (analogue to main- and side-nodes of Global Scaling). So there are lots of movement elements, to which movement pattern of Potential-Vortex-Cloud can be resonant.

More or less Harmony

Up to now, Local Ethermovement was considered theoretically isolated and these clouds as a whole assumed stationary in space. At following chapters, diverse real Potential-Vortex-Clouds are discussed and it will become obvious, countless clouds of most different size are overlaying and are wandering through space. These clouds are physical occurrences (from electron to galaxy), however can also be appearances of 'fine matter'.

'Material' Potential-Vortex-Clouds are relative coarse movement's pattern, i.e. between Free Ether and these movement's pattern are relative large differences of movement's shape. Fine-material Potential-Vortex-Clouds demand much less 'deformations', i.e. are much smaller overlays of Spiral-Cluster-Tracks of Free Ether. These clouds thus are much easier to build up than coarse-matter clouds (it's much easier to produce idea to lifting a stone than to raise up real stone). 'Spiritual clouds' can also reach out much wider (like any Potential-Vortex-Cloud theoretically like practically has no real border). Naturally 'mental' appearances can affect 'material' Potential-Vortex-Clouds (like naturally overlaying 'physical' clouds mutually interact).

This means, Potential-Vortex-Clouds are surrounded not only by pure Free Ether. As a cloud wanders through space, it runs through Free Ether of most different 'colour'

resp. is within sphere of influence or is moving through other big Potential-Vortex-Clouds. Depending of each character of these clouds, wandering cloud is involved by most different influences. These impacts occur at boundary areas of Potential-Vortex-Clouds however could also impress whole character of cloud.

That cloud could be influenced 'positive', i.e. mutual changes in motions pattern could affect better resonance, so both exist by better 'harmony'. Opposite, cloud naturally could be affected 'negative' by some surrounding conditions, up to previous dispersing of cloud based on disharmony. These effects occur between clouds of 'material world' and also between clouds of 'spiritual world' - however these effects of mutual influences occur between clouds of coarse and fine pattern same kind.

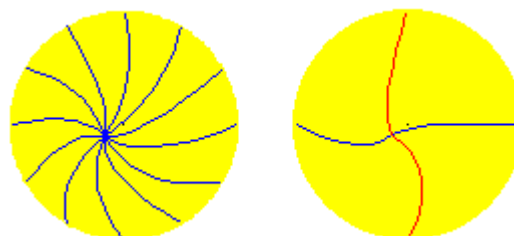
These spiritual points of view are to detail at later parts and chapters. At following chapter now are discussed some essential Potential-Vortex-Clouds of physical occurrences.

03.10. Potential-Vortex-Clouds

Various Swinging

At first part of these workouts was discussed why universe has to exists of that gapless stuff called ether. At second part was discussed swinging movement of all ether at its narrow, most complex spiral-cluster-tracks. At previous chapter was discussed principle of locally limited movement's pattern. At this animation schematic are show principles of these motion's processes.

This special motion of Bounded Ether all times borders on Free Ether, where its small-scaled trembling seems nearby resting in comparison with large-scaled swinging of Potential-Vortex-Clouds. Discussion of processes within border-areas at previous chapter 'Movement's Drive' did point out, without that 'trembling' of Universal Ethermovement no transition to tracks more stretched could exist. If whole universe would be without background motions, also no local pattern of motions could occur.



At this animation left side is shown cross sectional view at equatorial plane. Outside around is 'resting ether', while towards inside motion's intensity increases, i.e. swinging motions are of larger scale. This picture points out once more, between centre of motions and border areas are demanded large areas of balancing motions.

At this picture right side is shown cross sectional view through longitudinal axis of this Potential-Vortex-Cloud. Around this axis motions are 'tumbling', while at equatorial plane connecting line are swaying. These swinging motions are rather different, thus whole cloud not at all is symmetric to central point. At previous chapter was discussed, these motions result of multiple overlaid circled motions, where from outside to inside come up motions of each larger radius. None of these motions can occur only at one plane, but must run into all three dimensions all times. Connecting lines thus are not only these simple curves like marked here, but build various 'loops or eyes'.

Within motion's principle sketched resp. visualized here, thus many variations exist up to really individual motion's pattern. At previous chapter, this principle was deduced as theoretical necessity, which within gapless ether is absolutely compelling. Concept of Potential-Vortex-Cloud there was assumed stationary within space, so at first only described as theoretical model. Now question is, which kind of real Potential-Vortex-Clouds are really existing within universe.

All Occurrences

Answer for this question is quite simple: within gapless ether can exist only that pattern of local limited kind - so all appearances in principle can be only that kind of motions. There is only one single kind of real matter, called ether. There is only one kind of motion in general, at these Spiral Cluster Tracks of Universal Ethermovements. There is only one kind of Local Ethermovement, by principle of Potential-Vortex-Clouds.

Most large examples of these clouds are to see at heaven by millions, in shape of galaxies. Real ether motions of these occurrences we can't see, however accumulation of stars within their wide balancing areas.

These pictures show diverse shapes of galaxies. Upside sphere-shaped assembly of stars is shown, i.e. within that cloud all connecting lines are rather likely resp. all motions are similar.

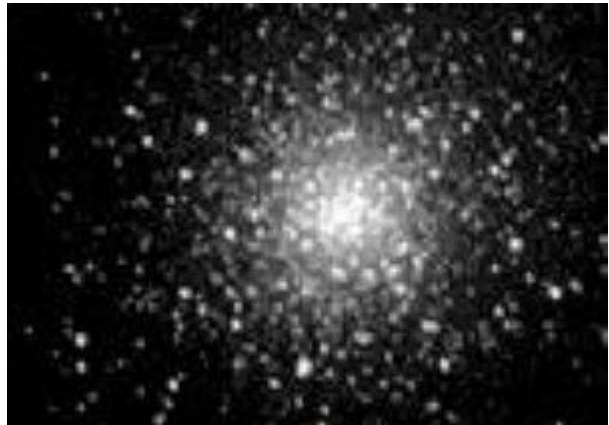
Picture at the middle shows galaxy with pretty spiral arms, by which turning motion is obvious - however there is no real turning-around within ether, but only motion swinging around.

Many galaxies have only few arms, picture below for example shows galaxy with only two arms, witch in addition are braked.

At astronomy is assumed, diverse shapes of galaxies represent different stage of development. By sure, galaxies wander through space and are affected by diverse influences, up to collisions between galaxies. As mentioned at previous chapter, within universe come up more different shapes and structures all times - quite opposite to law of entropy and its prediction of heat-death of universe at a whole.

Null Attracting Forces

Science of astronomy assumes accumulation of stars within galaxies is founded on attracting forces of materia-masses and at centres of galaxies are assumed mighty 'Black Holes'. All theories of astronomy indeed are based only at two assumptions: gravity resp. gravity-constant (even all times are measured different values at different places on earth and even at same place at different times) and at light-



speed (even constant of light's speed became also most uncertain). Because calculations with these factors and 'common' materia don't fit, 'dark energies' and other (pure fictive) factors were introduced (see e.g. chapter 'Special Terms', there 'Courage for Gaps').

By sight of gapless ether, processes are explained quite other kind. There are no attracting forces at all, ether is un-dividable unity, must not be kept together as this materia by itself can not drift off. There is no other ether within centre than anywhere, but everywhere is likely ether by same density. Ether at centre is only swinging at some larger distances than at outer areas.

Like described at previous chapter, mass of Free Ether around galaxy affects some pressure by resisting versus actual contrary motion's phases and thus affecting more intensive swinging of connecting lines, resulting previous overlays, loops and eyes within swinging lines of that Bounded Ether. Into these areas also stars (some smaller Potential-Vortex-Clouds, see below) are 'floated', so connecting lines (up to now described only theoretical) become visible by these stars (and star's dust).

It exists no gravity in shape of attracting force (and no other strong or weak attracting forces exist). Nevertheless exists tendency for accumulations based on differences of small-scaled and wide-reaching motions and thus phasewise contrary motions. Within galaxy-cloud this potential-vortex affects same result like well known teacup-effect (where coarse matter accumulates at centre after stirring around). Mind you: result is comparable, however not process between 'particles' (rotating potential-vortex within teacup) and of ether by itself (potential vortex of Bounded Ether swinging into three dimensions simultaneously).

Attraction seems to exist just by collision of two galaxies, as stars and dust are 'drawn' from one galaxy to the other at spiral tracks. Real cause however is based at principle of Local Ethermovements: receiving galaxy now not only is surrounded by Free Ether, but delivering galaxy represents larger resistance (at least phasewise) by its contrary motions. 'Stress' within ether comes up between both galaxies, only to disperse by more intensive twisting of connecting lines. Stars and other material parts swim or are floated towards dominating galaxy by these additional vortices.

Stars and Masses

Naturally also motion's principle of stars are Potential-Vortex-Clouds. Also sun don't exist of 'special materia' but only of common uniform ether. Sun has no 'mass' more weighty than at surrounding areas, because ether nowhere shows different densities. Sun still shows inertia, however based only at its movements. All ether of sun, however all ether of whole volume of inevitable balancing areas in addition, is moving synchronously. That total kinetic energy of total sun system represents its inertia - or also its 'mass' (by which affecting onto other Potential-Vortex-Clouds e.g. if colliding with each other).

Cloud of sun represents rather small vortices system within comparably huge vortices system of its galaxy. These stars simply whirl around within vortices of balancing areas of galaxy. Based on previous described pressure of each zone 'more calm' (resp. areas of stronger resistance based on contrary motions), stars prevailingly are driven into zones 'more turbulent', into these areas of spiral arms of galaxy - while mass and gravity of common understanding doesn't exist nor affect anything.

Within centres of vortices now connecting lines of all directions meet. Already by theoretic considerations of previous chapters was pointed out, these motion's pattern are not uniform. By outer influences, these movements of diverse connecting lines become even more different. Also by stars embedded within spiral arms, these connecting lines become individual structures. All these different connecting lines meet at centre, so naturally there comes up most heavy 'stress' within ether. At the one hand, stars are shifted into radial direction, at the other hand centre is rather 'hot spot'.

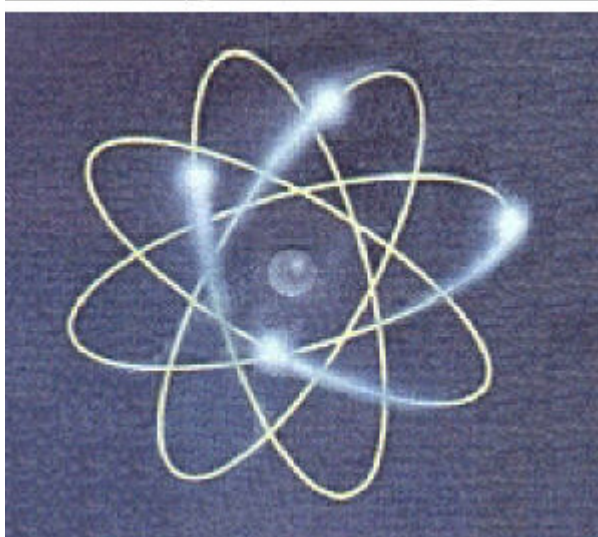
That's valid for centres of galaxies and likely for centres of stars: sun 'glows' as vortices must be 'kicked off' for reducing stress. This process is comparable with earthquakes, where dammed-up tensions are compensated. Ether is not elastic, each 'tension' immediately must be compensated by balancing motions. Commonly that's called 'radiation', which can show diverse shapes, in principle however again behaves like any Potential-Vortex-Cloud, however not as 'stationary' vortex, but jerky jumping ahead within space (see next chapter).

Planets and Circulating Waves

At sun system (schematic view at this picture upside) no spiral arms are visible, nevertheless area of synchronous motions within balancing areas reach wide out into space - much far than 'outer end' of sun system commonly is expected. That total area is Potential-Vortex-Cloud of sun, central hot core is only tiny spot, where from all radial directions 'swinging lines bang together'.

At previous chapter was shown, balancing motions into direction of poles show relative simple cone shape. This tumbling around axis only is necessary for balancing motions at 'sloped' equatorial plane. Much more complex are balancing motions within horizontal plane, because there are larger differences of central swinging towards Free Ether. That's why previous slings and eyes of connecting lines prevailing come up within that plane.

Like shown at chapter 'Circulating Waves' phasewise shifted circle-motions result appearance of wave turning around centre - and within some of these overlaid vortices float planets around sun. Like shown at previous chapter 'Movement's Drive' overlaying circled motions outside are rather small and increasing towards inside. That's why these apparent waves (visible by embedded planets) outside move slow and further inside turn faster around sun.



Also planets can be Potential-Vortex-Clouds with corresponding wide balancing areas around, however only if core is gaseous. Planets of solid material however behave like stable vortices, which need balancing areas not thus large. Nevertheless our earth won't end at earth-surface, nor at its outer atmosphere, but finally outside of its 'magnet- and gravity-fields' (see next chapter).

At any case however, planets inclusive their 'aura' represent stronger resistance within motion's system of sun. Connecting lines between sun and planets thus are moving more intensive than others. Swinging motions e.g. between sun and earth builds 'streak' of vortices resp. real streets and rolling cylinders, at which heavy 'storms' occur.

Each planet is bound by special connection to sun, however also planets resp. their wide influenced areas 'meet' by steady other constellations. Grave influences naturally result e.g. by overlays of 'great conjunctions' - much more than only bad dreams by full-moon.

These 'disturbances' appear prevailingly at equatorial plane, correspondingly heavy motions hit sun from these directions. Less overlaid and less wide resp. less fast are balancing motions of connection lines into axial direction towards sun. That's why apparent wave (not visible cause no planets are positioned near axis) runs around sun relative slow - well visible by slow turning of sun surface near poles (ca. 35 days per revolution) opposite to relative fast turning of equatorial areas (one revolution within only 25 days). Only by this point of view, deduced of understanding of ether as single real matter with its unique property of gaplessness, this phenomena is to explain.

Building Site Atom

Model of atom still valid is deduced from motion's system of sun and planets (see schematic drawing upside). Logical inconsistency of this understanding is well known, its alleged attracting-, repulsive-, centrifugal- and centripetal-forces up to 'paste-particles' can not explain these appearances sufficiently. Quant-physicans hunt for sub-elementary-particles, work with pure fictive terms and are 'proud' not to be grasped by 'normal' understanding.

Without doubt exists one elementary 'particle', commonly called electron. This is a rather simple Potential-Vortex-Cloud, like previous described theoretical model, with relative simple curves of connecting lines. Nearby same kind will be hydrogen-atom (which does not really fit into periodic system of chemical elements). These both 'material parts' are absolute majority of all appearances within universe.

It's absolutely clear, there are no concrete solid bodies of any special materia with clearly defined boundaries. Absolutely certain, these appearances are nothing else than local pattern of motions of ether within general movement's pattern of all ether around.

Atoms don't have nucleus of special parts, but are build throughout of just normal ether. Atoms (more weighty than hydrogen) are larger Potential-Vortex-Clouds or are assemblies of diverse electron-clouds. Potential-Vortex-Clouds have individual character, 'materia' is not simply build by absolute uniform 'brick-stones'. If Potential-Vortex-Clouds (e.g. electrons) meet each other, as a rule, at outer surfaces

phases exist contrary motions. At ether between comes up stress - so these clouds show 'repulsive forces'.

Only by special conditions, these clouds can 'cooperate', e.g. if motions alongside axis become synchronous twisting movement. Then these clouds at these sides partly are protected versus general pressure of Free Ether. Also larger assemblies can come up. Sometimes one cloud adapts shape abruptly to fit with an other cloud, so 'energy radiates'. Sometimes that assembly works only if clouds are pushed strongly together, i.e. this combination demands 'energy'. Cohesion of these molecules is more or less strong resp. weak, depending on geometry of boundary surfaces towards outside.

'Mass' of chemical elements is not determined by its nucleus (because there are no special elementary particles). Whole formation however includes all volumes of involved areas of complex swinging motions: minimum centre of swinging motions, diverse involved electron clouds, above this also balancing areas further outside (practically 'aura' around any assembly of Potential-Vortex-Clouds). If vortices systems collide, they meet at these outer areas resp. already between its most outer borders comes up previous described 'repulsion'. Atoms show different structures of surfaces, different 'bulky' to each other, thus mutually showing different resistance. This resistance of vortices systems - that's 'mass' resp. 'inertia' by which they keep distance to others or force movement's direction of others.

Pervious / impenetrable

If one directs a small Potential-Vortex-Cloud - a photon - towards chemical element, it can penetrate into that cloud until meeting strongly contrary motion, so mini-vortex of photon is rejected. This will occur at this or that spot of actual bending at a connecting line. Based on this mirror effect, 'uncertainty-theory' was deduced with its unlucky story of escalating, really unbelievable and improbable dis-conclusions (up to assumption, observed 'wave-particle' would observe operator of experiment, e.g. at well known double-slot-phenomena).

These (wrong) judgements essentially are based on fact, common physics as a rule observe only 'core' of an appearance. One knows there are some 'fields' around occurrence, however one does not consequently include into considerations resp. one assumes these 'aura-aspects' only as abstract (side-) effects, instead understanding just these appearances as totally real und absolutely necessary motions of ether.

At radiations or electromagnetic waves for example, only centre of swinging motions is judged as real appearance - however extremely wider and inevitable balancing areas around are not included in considerations. At atoms and atomic compounds for example, most important are judged 'atom-weight' and 'valence-electrons', based on separated particles, however not sufficiently is considered total structure of complex vortices systems.

At analyses of elementary particles research is concentrated on detection of new sub-particles, instead of seeing these appearances as demanded bending and winding of connecting lines. One can not penetrate into these vortices systems without disturbing it (at extreme case creating most extreme 'stress' within ether, e.g.

in order to hit 'holes' into undividable ether, e.g. at attempt of splitting atomic nucleus).

Smaller Potential-Vortex-Clouds can float within larger vortices rather problem-free. That's dominating process within galaxies and sun systems. Likely Potential-Vortex-Clouds however have likely strong movements and based on many actual contrary motions are mutually impenetrable, are even repulsive, if they can't dock onto each others suitable surfaces. This is dominating process within area of 'material bodies' (from electron via atoms und molecules up to variety of its accumulations).

This coarse appearances of parts are our concrete world of experiences, within which we come along rather easy. These experiences however are hindering for recognition of that other 'world', existing not by separated parts but existing by mutually penetrable swinging motions. We well know that possibility of penetration of well known physical occurrences, e.g. of some kind of radiations or 'fields' in general.

Hologram and Focus

Classic physics however expel all other occurrences into 'dubious' area of meta-physics. Dominating process of 'fine matter' clouds is easy penetration of Potential-Vortex-Clouds through others. It's clear, 'fine-matter' swinging motions can overlay all other movements without problems. If that kind of 'spirit' meets materia, naturally come up changes of movements for some moments and both clouds mutually affect each other. Actual contrary motions however are not so 'massive' and not of equal 'forces' to repulse whole fine-matter cloud already at boundary areas of coarse-matter cloud.

Fine-matter clouds (like all others) in principle must be closed potential vortex systems. These clouds however can be much wider, because they show movements only gradually other kind than Free Ether, so Universal Ethermovement affects much less concentrating pressure. Naturally fine-matter clouds also show less repulsion momentum versus other fine clouds, i.e. these 'spiritual' clouds will overlay multiply.

Fine-matter clouds thus practically overlay all Free Ether. Previous Spiral-Cluster-Tracks are omnipresent within universe, however will practically nowhere be of 'pure' shape. Universal Ethermovements have order-function, e.g. because previous Potential-Vortex-Clouds of 'material world' can steady exist only when sufficiently resonant to these basic swinging motions.

Analogue are 'spiritual' clouds omnipresent (at least within wide areas of universe), based on their far-reaching extension. As already discussed at coarse Potential-Vortex-Clouds, all motions within wide balancing areas depend on motions at centre of cloud (and are depending on circumstances at outer border areas). These 'informations' thus are stored everywhere within cloud, practically like stored within a hologram (however not uniform, because motions differ within different regions of cloud, so direction towards core is to recognize from all sides).

Based on large extension, clouds of 'spiral content' can also show order function, thus affect other 'ideas' like material occurrences. This influence however is not so massive and thus not compelling like Universal Ethermovments. If however clouds show 'mental readiness', are attentive resp. fucussed accordingly, these clouds can

be sensible receivers, i.e. synchronous swinging can come up, based on principles of resonance - and can even recognize 'core of matter' by registered impulses.

Opposite, mental swinging motions of a local 'cloud' naturally can be included into motion's pattern of a wide-reaching cloud, depending on intensity of its behaving in general. These mutual influences can become rather massive (nearby of 'material' hardness), if many like-minded enforce each other by resonance.

Overstep the Mark

I realize putting off many reader by this 'sweeping attack', especially nature science oriented (if at all they took 'torture' to reading so far). Without any doubt many phenomena are not to explain by common physics and I mentioned only some of at previous examples. It's up to reader to check his special themes by that point of view of gapless ether and inevitably deduced possibilities and necessities of movements.

I'll make workouts by separate parts and many chapters to every subject mentioned above. This will take months and years. I would appreciate if others would develop precise ideas to diverse problems, based at these starting points and based at their profound knowledge. At any case I thank for hints in advance.

Metaphysical oriented readers might already understand by previous statements, that and why and how these recognizable connections between 'spirit and materia' are based at really physical level of substantial medium ether - and not at all are only sloppy sentimentalities or esoteric stuttering. However I can do precise workouts to that 'Ether-Philosophy' finally after description of Ether-Physics - and I hope for many intuitions in the meantime.

At last sections I used some 'empty words' e.g. like mental readiness, spirit, ideas, focus, sensible, receiving etc. I'll try at these later workouts to define precisely also corresponding structure of these Potential-Vortex-Clouds. Some of physical like mental terms are already clear for me, concerning other problems I still need 'dropping-in' ideas. For example Potential-Vortex-Cloud of 'will' seems rather essential - and not easy to crack.

I well realize, for many readers these intensions are highly strung nature. That's why next chapter comes back to quite real stuff, nevertheless absolutely unimaginable or unbelievable: scales of sizes of our world. On the other hand it is to talk about, how Potential-Vortex-Clouds can move through resting ether, e.g. light. Lastly it's to talk about these solid bodies, e.g. rotating earth, at following chapters.

03.11. Wandering Potential-Vortex

Gaping Void

Movement's processes of ether within ether might be unbelievable to readers, even there are motions of similar kind well known, e.g. quite real at liquids and gases. Indeed unimaginable, i.e. totally outside of our concrete world of experiences are scales of macro- like micro-cosmos. At picture 03.11.01 at A 'nulls' schematic are marked at a scale of distances.

Nulls-behind-decimal-point (or 10^{-17} or 10^{-18} etc.) are easy to write, in reality however each further null means dividing previous, up to now smallest unit into ten parts (like marked at B).

for ten, hundred and thousand metres. Most don't like to walk ahead for ten kilometres, only some few want to run hundred kilometres. So our natural real experience already ends by kilometres, longer distances we prefer to let us move e.g. by motorcar or airplane.

[illegible]

Atoms thus are smaller by billions than our metre and what we normally call materia are miniscule tiny particles within comparably vast space, consisting of emptiness or of nothing or at least of no matter, so at a whole nearby nothing within nearby unlimited nothing - by common understanding. Opposite, also large material bodies nearby are nothing resp. at least miniscule tiny matter within emptiness of universe, e.g. total common materia is merely five percents and remaining rest should be dubious 'dark energy' - by common understanding.

Nobody is able to get real idea of these minimum-small and huge-wide distances and volumes. So it doesn't really matter, how much digits ahead or behind decimal point each appearance should define - it's all times an incredible, really astronomic relation.

Size of universe is deduced of gravity affecting at earth - and it's absolutely not sure, whether this absolutely not constant value is valid same kind within all wide regions of universe. Second factor of calculations is light-speed like measured at earth with its (supposed) linear spreading - however that speed nowhere is constant, is different within different medias, light is bended and refracted. Third assumption is, red-shifted light frequencies are based on movement's directions and movement's speed - however also this occurrence could have other reasons.

So at a whole it's rather questionable (and known, however not published permanently) whether it's reasonable and realistic to make projections at many decimal digits far out into macro-cosmos, based at these few and not sure factors. Opposite, sizes of micro-cosmos seem to be more precise - if uncertainty at searching for (suggested) particles is neglected resp. there are done only mathematical operations without any concrete relation to real experiences (and also this problem is well known, nevertheless explanations of common world-view mainly are based at pure mathematical attempts).

Minimum Swinging

At schematic drawings of Potential-Vortex-Clouds of previous chapters, central swinging was drawn extreme large in relation to circumference of whole cloud. Swinging can't exist by these relations. At galaxies or sun systems or atoms, all times are many nulls between core and total extension. Radius of outer 'border' of these Potential-Vortex-Clouds is larger than core at least by ten thousands, by millions up to billions.

Again it might be unbelievable for us 'coarse-matter-objects', these minimum differences of motions within ether could have such importance. On the other hand, if universe would not exist of gapless ether, but would be build up by particles - why should be necessary these 'crazy-wide' spaces between of nothings? Emptiness of outer space could be 'explained' as consequence of big-bang, where this strange effect is only based at previous mentioned projections. Necessity of emptiness of micro-cosmos, these strange distances between tiny particles, however is not to explain by common understanding.

Only if ether is assumed to be substantial and to be gapless continuum, so ether can not move any kind, these large differences of distances between movement's pattern nearby similar are inevitably demanded, at gigantic tall appearances like minimum small occurrences.

That's why at previous chapters I did point out all times, balancing areas between motion's core and outer boundary areas of clouds must be extremely large. So previous drawings show only distorted view - like any picture e.g. of galaxies like atoms can show relations only overdrawn (not only this photomontage of moon and earth).



I leave it to experts, which scale of relations of core and total volume of Potential-Vortex-Clouds might be valid. This question has no real answer, because outer borders never are sharp (like suggested at material bodies). At any case however, differences of ways of motions in relation to diameter of cloud will be really

‘astronomic’ thus far out off our experiences. Following example might probably give good impression.

Alongside of straight road are parking 320 cars. Some drivers are searching their car a quarter of an hour, until last car, thousandfivehundred meters ahead. These cars would fit into parking cube of 20 by 20 by 20 metres (however without place for driving). At centre of that huge-stuff, something is trembling one millimetre back and fro - by 10.000 millimetres distance to outer walls. This will be minimum relation between motion’s core and total volume of Local Ethermovement. If at centre something swings around one volume-unit, there would be involved inevitably (within a sphere) 6.000.000.000.000 volume-units of balancing co-swinging motions.

If only one more null is assumed, thousand times more cars would fit into that gigantic cube of twohundred metre edges - for months drivers could search for their cars within. At real Potential-Vortex-Clouds also some more nulls could well be demanded for central motion within cloud - so at the middle will be some special ‘trembling’ nearby not to recognize within huge balancing area, reaching extremely far out to common and even finer ‘trembling’ of Free Ether.

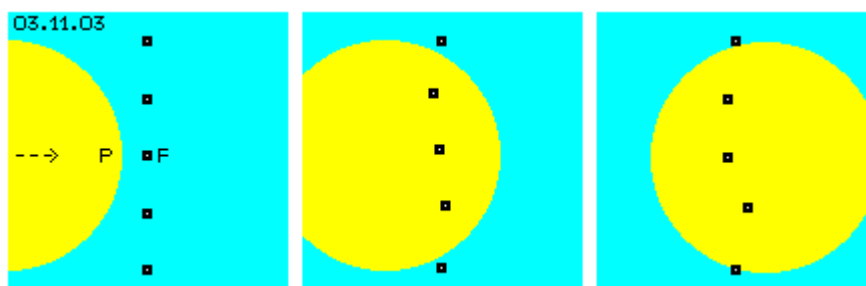
Wandering Vortices

At first chapters of Local Ethermovement, motion’s process of Potential-Vortices was demonstrated by clouds ‘stationary’ within space. Lastly at previous chapter, point of view was included that vortices systems could also wander through ether, e.g. galaxies or atoms or single electrons are moving ahead within space. Thus ‘resting’ Free Ether would only be located outside of galaxies.

Within spiral arms (these bended connecting lines) of galaxies, ether is moving at wide swinging motions. Within that whirling ether, celestial bodies float. By previous mentioned pressure, these bodies not only drift within ether but also move relative to surrounding ether. Lastly e.g. earth rotates also around its own axis and e.g. materia above or at its surface again shows relative motions. Thus indeed, all vortices systems and also solid ‘material’ bodies are at multiple overlaid motions within space.

At picture 03.11.03 now is shown a single Potential-Vortex-Cloud (P, yellow), moving from left to right at these three parts of picture. Resting ether (relative to this

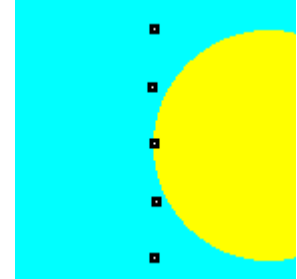
motion-ahead) is marked by five black points (F). This ‘Free’ Ether does only Universal Ethermovement at short distances, so here is assumed to be stationary.



Motion-ahead of cloud was started by any cause (e.g. collision of galaxies, other reasons are mentioned below). Ether volume of this cloud thus shows kinetic energy of motion-ahead, in addition to its internal movements. However, there is no ‘mass’ (and even not by sharp borders with fix contour) moving through Free Ether. Wandering through space is only this motion’s pattern of complex vortices system.

Previous three pictures are parts of this animation, which visualizes movement's processes. These five observed points of Free Ether take motion's pattern of each connecting line of Potential-Vortex-Cloud, while this system moves through its local position. Only phasewise these points 'dance' corresponding to motion's pattern of this part of cloud.

Ether points quite upside and quite downside at outer boundary area of cloud are merely involved by vortex passing by. Only points between, for short time do some other kind of motions than normally they move. Based on motion's principle of Potential-Vortex-Clouds all neighbouring points do corresponding balancing movements. If this cloud passed by this region, again motion's pattern of Free Ether nearby unchanged is going on and on.



At this Potential-Vortex-Cloud no connecting lines are marked. It doesn't matter which direction Potential-Vortices wander, whether by one pole ahead or diagonal or at equatorial plane or even rotating or tumbling. At any case all internal motions occur synchronous into all directions same time. And at any case, ether outside of boundary areas of cloud move like Free Ether at Spiral-Cluster-Tracks.

Only Structure wandering

'Coarse-matter-humans' again do hard to accept this idea: at no times solid bodies with its masses move through space, but 'only' structure of ether-vortices wander through space resp. not through abstract space, but quite really through ether relatively resting.

All appearances are certain pattern of motions within uniform ether. Ether at all places is relative 'stationary'. Free Ether is moving only within scale of its universal movement at Spiral-Cluster-Tracks. Bounded Ether of large vortices systems move at wider tracks (however still within limited regions) e.g. within area of swinging motions of connecting lines. Embedded into these large Potential-Vortex-Clouds are smaller ones, floating and wandering within - however only that kind, involved local ether points behave like other motion's pattern demand, and only for some time of passing through.

'Coarse-matter-people' do hard to leave idea of solid particles and stable bodies. By 'normal' understanding, all times something moves relative to other stuff, e.g. even within river material water moves ahead relative to material ground. At level of ether - and materia and material bodies lastly exist of nothing else than ether - no thing moves ahead, no portion of ether-volume moves far, but only pattern of motions wander far ahead, nothing else, nothing more, nothing less.

It's hard to find example of material world fitting to this process, best example might be vortex within stream. Water flows down brook and all parts of water do same vortex-motion at one special place e.g. initiated by a stone. This pattern of vortex is stationary, water flows through that vortex while its normal wandering downward of stream.

Exactly like this, ether-vortex moves ahead within resting ether - only by view vice versa. By view of observer (e.g. one water particle) floating within stream, he (it)

moves into direction of vortex, does its dancing motions for short moment, afterwards this vortex disappears - by view of observer - upward within brook.

Also small wind-whirl rushing ahead at street (by nearby calm air in general) could be good example. For stationary observer (resp. one point of Free Ether) this appearance is analogue to previous: there is an air-vortex coming towards him, he is forced to perform partly that vortex-motion's pattern for short moment, afterwards whirl-wind runs off further ahead its track. After some moments, everything is quite calm, like before.

Inertia

Now naturally question is, why Potential-Vortex-Cloud should be able to 'press' itself steady through ether. Cloud has to impress its motions pattern onto resting ether for short time - and afterwards everything should be like before, vortex should go on walking ahead without delay and resting ether should 'rest' like normal at its place.

By common view of material occurrences it's clear: inertia inherent mass keeps constant speed and direction of moving body. It's clear, a particle in motion through nothing (e.g. through empty space of common understanding) can move on and on (or e.g. within air its speed is only reduced by friction). It's also clear, for stopping movement ahead of particles, force is demanded corresponding to original impulse resp. to kinetic energy of this mass in motion.

However it's not quite clear, why particles also resist vehemently versus each change of motion's direction, as thereby speed is not reduced and aside of track is nothing to hinder change of direction (besides e.g. previous air). Why for example, should be demanded enormous centripetal forces for 'acceleration' of mass into steady circled track?

This is not really to explain by evasive term of 'inertia inherent to mass'. When observing basic ether movements of 'mass and its motion', reasons for constant speed and direction is well to explain. By view of material world and its particles, inertia without any losses is possible only theoretical resp. in reality losses by friction all times are inevitable. Only if ether is understood as real continuum, constant of energy not only theoretical but also really is valid.

Jerky ahead

At previous chapters was stated already at stationary Potential-Vortex-Clouds, Bounded Ether at its outer border areas is involved by Free Ether. Free Ether resists versus actual contrary motions of connecting lines and thus affects centripetal pressures. These affects result balancing motions more intensive further inside of Potential-Vortex-Cloud, these pressures are compensated at phases of actual motions into same direction, lastly resulting stable Potential-Vortex-Clouds if sufficiently resonant. By these pressures of all sides, clouds in principle are sphere-shaped, however with differing motions into different directions.

If now this cloud is moving ahead in addition, all internal motions have impressed impulse into that direction in addition. At frontside of cloud, thus phasewise results higher resistance of Free Ether. Thus within gapless ether, internal motions become more intensive correspondingly.

Thus if cloud at that phase is decelerated within its motion ahead, connecting lines there are compresses and balancing motions right-angled must come up, until backside of cloud. If now next moment are motions into likely directions, that 'tension' can escape into correspondingly strong motions ahead.

So at a whole, cloud will show some more pulsating internal motions, even its sphere-shape could be compressed and expanded pulsatingly. At a whole, thus Potential-Vortex-Cloud won't fly ahead like a bullet by constant speed but moves jerky ahead within ether.

Also at classic physics is assumed, motion ahead of sphere within ideal gas theoretically is without friction. Increased pressure at frontside immediately spreads into all directions, thus also at backside of sphere exists likely high pressure. Sphere thus is pressed ahead at backside like blocked back at frontside. Nevertheless at real gases resp. within medium of particles, spreading losses are inevitable.

Only if ether is assumed to be gapless medium, constant kinetic energy exist also in reality. Now one could imagine, Potential-Vortex-Cloud at its frontside pushes ether aside and this 'overcharge' of ether escapes backwards behind Potential-Vortex-Cloud. This far motion of dislocation however doesn't exist, because this process would demand shifting of material at border-surfaces. So comparison of ballistics (like photon-particles commonly are understood like bullets) doesn't fit and also comparison of ether with ideal gas doesn't work.

Lossfree constant of kinetic energies of motion-ahead is only to understand by phasewise and total 'intermediate storage' by more intensive internal swinging motions right-angled to motion's direction. Depending on actual situation concerning likely or contrary motions, pulsatingly occurs motion of pushing-ahead, alternating with building-up of internal swinging cross to motion's direction.

So (at the moment) it doesn't matter which side ahead Potential-Vortex-Cloud is wandering through resting ether: all times connecting lines into movement's direction are compressed / expanded and cross to that direction balancing swing-motions show pulsating amplitudes. However, that kind of jerky jumping ahead is limited some kind.

Speeds

Dimensions at micro- and macro-cosmos differ extremely and also differing are speeds within. Our 'natural' speeds are some few km/h or m/s, we have concrete experience of sound-speed with its approximately 300 m/s, however we build machines with higher speeds.

Earth wanders through space, however we have no direct impression of, seasons e.g. are only secondary appearances. Rotation of earth around its axis is concrete experience by day and night, however we have no concrete impression of speed of that roundabout. Within 24 hours, one point at equator moves some 40.000 km, that's nearly double sound-speed. Further up at globe, e.g. at Europe, we race along by sound-speed, thus by some 300 m/s - and don't feel anything about.

Light is incredible fast, we only can take theoretically, e.g. within one second light runs around earth seven times, with some 300.000 km/s. It's above real imagination,

light with its 300.000.000 m/s is faster by million than sound - which is extremely fast compared with our natural speed of movements.

So if we handle or move ahead any material body or if we rotate around with earth even by sound-speed, this wandering of assemblies of Potential-Vortex-Clouds occurs by nearby negligible slow speeds, compared with light-speed - and thus in relation to motion's speed of 'resting' Free Ether at its Spiral-Cluster-Tracks.

Light-Speed

Universe is so large, distances are measured by light-years, thus by 300.000.000 m/s multiplied by more than 30.000.000 seconds of year, thus some 10.000.000.000.000.000 m this unit is long - and universe should be wide again some millions of such units. Light is un-imaginable fast in relation to our normal experiences. Nevertheless it's hard to understand, why motion should be limited to certain value and light's travel through universe should take so 'infinite' long times.

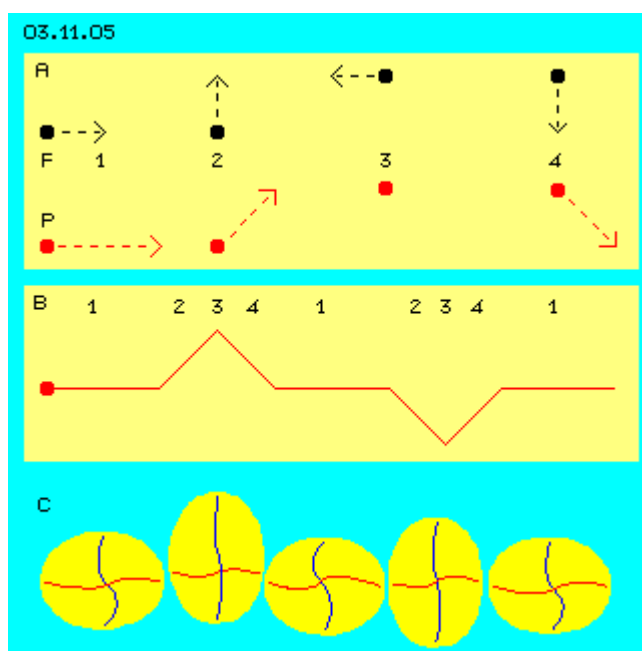
Light's speed can not be limited only by some abstract restriction, but limitation must have concrete reason, which must be determined by medium light is moving within. Light can not be transmitted by 'vacuum', light must be special kind of ether movement. Other motions (besides Universal Ethermovement) are locally limited, thus are Potential-Vortex-Clouds, which naturally can wander through 'resting' ether (as separated cloud or repeatedly by likely clouds, or as assemblies of potential vortices, e.g. like earth as a whole). A 'photon' thus can not be any particle nor is represented by any wave, but photons are relative small Potential-Vortex-Clouds (because photons have nearby null or just no 'mass').

As light is so fast, it can not tumble somehow through space (like mentioned upside, no matter which side ahead), but must move most best coordinated with Free Ether's motions. That cloud must wander through Free Ether with one pole ahead, because twisting around axis is motion less problematic (compared with tumbling swinging motions at disk of equatorial plane). Nevertheless this little Potential-Vortex-Cloud actually shows likely or contrary motions versus Free Ether.

Hopping Photon

At picture 03.11.05 schematic are shown diverse phases. At A upside is drawn a point of Free Ether (F, black), where arrows mark its actual direction (1 to 4). Instead of its complex motion at Spiral-Cluster-Track here simply is assumed, it can move only to right side, then upwards, afterwards to left side and lastly back downside.

Below is marked 'photon' (P) as red point, which got impulse for general motion towards right side (reason for impulse is mentioned later). Speed of motion ahead is assumed to be



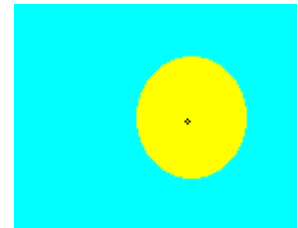
like speed of Free Ether point.

At phases of likely motion (1) thus photon comes ahead rather far. If Free Ether moves aside (phases 2 and 4), photon drifts also into this direction and comes ahead corresponding to its own speed. If motions are contrary (3), photon won't come forward.

At this picture at B, way of photon schematically is marked, based at this generalizing point of view. Photon would come ahead by differing jumps, would also be rocked sideward, some times even would rest. Really track will not be schematic like this drawing (because Spiral-Cluster-Tracks are not symmetric like marked here), real track of photon indeed could look like chaotic.

However not total photon will be rocked like this, but cloud would behave and move ahead like amoeba does. If motion ahead is decelerated at frontside, balancing motions will be enforced into direction of actually less resistance. General sphere shape of cloud will merge into rounded shapes, also asymmetric to longitudinal axis, by steady changing contours.

At this picture at C, changing shapes of cloud schematic are marked while cloud moves from left to right side. At animation also are visualized that jumping-ahead, resting-phase and steady changes of clouds outlines. This animation is rather coarse, nevertheless real process of motions well could be likely (naturally with smooth transition of shapes and speeds).



Electromagnetic Waves

At 'electromagnetic waves' appearance is well known: at frontside comes up electric field for short moment (here jumping-ahead of twisting motion around longitudinal axis), afterwards appears magnetic field some aside (here more intensive swinging motions at equatorial plane, thus cross to longitudinal axis, and shifted aside corresponding to actual motion of Free Ether). Electric field like magnetic field disappear periodical and appear further ahead and/or some aside original axis.

Photons thus are no particles and electromagnetism is not based on classic waves, and particle-wave-dualism can not exist at all (besides as empty words). At 'electromagnetic waves' are wandering motion's pattern of Potential-Vortex-Clouds through (relative resting) ether, nothing else, nothing more, nothing less.

Left turning pole is directed ahead. Twisting motion around longitudinal axis makes ether ahead moving at increasing larger swinging tracks (commonly called 'electric field'). If equatorial plane of cloud passes Free Ether, much wider balancing motions of radial connecting line are present there, i.e. swinging motions cross to longitudinal axis come up with appearance of circulating wave (commonly called 'magnetic' momentum). Afterwards, corresponding to decreasing twisting motions (towards backside pole) Free Ether comes back to its normal motions at common Spiral-Cluster-Tracks.

However this process is not quite continuously. If at frontside are phases of actual contrary motions, vortex is compressed at longitudinal direction. Inevitably coming up balancing motions cross to axis will not be symmetric with same intensity into each

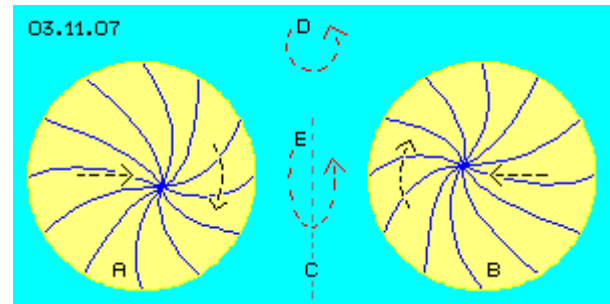
direction, but intermediately escape into direction aside of most less actual resistance. In general, resistance around equator is most strong (because of most large swinging motions). As soon as at frontside comes up phase of less resistance, intermediately deformed cloud will push ahead its tip again. Resulting of is that jerky jumping-ahead of electromagnetic waves with its asymmetric swinging cross to longitudinal axis.

Born by Stress

At picture 03.11.07 now schematic is shown source of 'electromagnetic radiation' in principle, for example 'birth of a photon'. Two Potential-Vortex-Clouds (A and B, here schematic drawn by cross sectional view) move towards each other (marked by arrows).

Normally, this collision is 'cushioned' already at their boundary surfaces resp.

both clouds repulse mutually based on contrary motion's phases. Connecting lines are compressed, thus their swinging motions are enforced, 'internal tension' relaxes as both clouds fly off into direction of most less resistance.



If however this collision occurs by high speed rather vehement and if both clouds even are contrary turning (marked by bended arrows), 'stress' comes up within ether between both clouds. At this picture, ether should have to move downward at left side and neighbouring ether at right side should move upwards. There is 'danger' of coming-up border-layers (C, grey dotted line), where ether-volumes would be forced to shift resp. glide alongside each other.

Free Ether swings at Spiral-Cluster-Tracks, here schematic marked only by circled track (D). Previous shifting can not occur within gapless ether, 'tension' is only to avoid as Free Ether stretches its narrow motions (left side moves some further down), into both directions (thus short time later some further up at right side). Instead of previous schematic circled track thus results track of elliptic shape (E).

Transition of previous circled track into that larger elliptic track can not be done abruptly, but only in shape of each wider spiral tracks. Above this, this motion can not occur only at one plane, but same time has to occur right-angled in addition. So there will come up spiralic track cone-shaped, here at this picture with tip coming out of drawing plane - or like mentioned upside: twisting motion around longitudinal axis of front side pole 'is born'.

By this vehement collision thus new Potential-Vortex-Cloud is 'pressed out' between both collision-partners. Its necessary balancing motions correspond to motions at surfaces of responsible partners, so stress-situation disappears. Free Ether between both clouds comes back to its original shape of motions, again swinging synchronous to its neighbours. Also this transition occurs smoothly and thus twisting motions of backside pole come to an end.

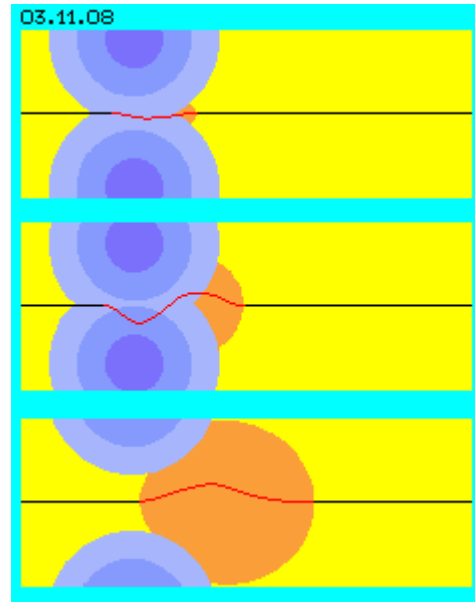
Exactly Fitting

At picture 03.11.08 are shown three phases of following animation, which illustrates this process once more. Both collision partners (blue) here move vertical towards

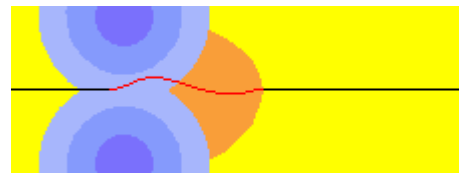
each other and its outmost areas dive into each other. Right angled to these motions, a photon (red) is pushed off. By horizontal connecting line (black) are marked points of Free Ether, which intermediately become twisting longitudinal axis of photon. These pictures again are highly overdrawn and can show process only schematic.

When we 'coarse-matter-bodies' see these blue objects racing towards each other, we instinctively expect crazy crash with destroying energies. Totally opposite situation within ether is. There do not blow up material substances through space, here through (resting) ether only fly away new movement's pattern - of perfect shape, e.g. a photon, according to characteristics of ether.

This photon becomes born only by corresponding stress situations (if internal swinging movements of clouds can not cushion collision in time). Then ether has to react by its most highest speed for changing pattern of movements: transforming Universal Ethermovement into complete structure of new Potential-Vortex-Cloud inclusive all necessary balancing motions simultaneously (and coming back to its original motion's pattern). This transformation of motions can occur only if both collision partners contribute fitting impulses for according motions (there can not come up something out of nothing, like e.g. 'virtual particles' of some theories of common physics).



As this new vortex directly comes out of motion's pattern of Free Ether, 'from birth' it is resonant to Universal Ethermovement. Because it is similar to Free Ether, its balancing areas can be rather small (nearby mass-less photons or even neutrinos). Because its motion's speed corresponds to speed of Free Ether (only at tracks some stretched), it can 'screw-ahead' (like discussed upside) ether-conform - however not slower or faster but exclusively by light speed.



So by this aspect, motion's pattern of Potential-Vortex-Cloud moving ahead, perfectly fits into motion's pattern of resting ether. This means however same time and inevitably, speed and direction of moving cloud can not be totally constant. There is practically nowhere Free Ether in pure shape, everywhere its original pattern is overlaid by diverse other pattern. Therefore e.g. resistance at front side of cloud is not completely symmetric, i.e. light is bended.

Naturally light can be slowed down (if moving towards a non-symmetric overlay), thus impression e.g. of red-shifted light appears. For example, motions of Free Ether within glass or water is shaped little bit other kind, so light comes along within these media some slower. Potential-Vortex-Cloud by itself is unchanged, only its motion ahead is delayed by differing resistances. Photon later e.g. within air can run ahead faster again ('screw-ahead' corresponding to characteristics of ether within that medium).

Electromagnetic waves thus are perfect interaction of resting ether and Potential-Vortex-Clouds running ahead - where however speed and direction of motion-ahead completely depends on 'status of resting' of ether passed by. So constant of speed nor linear direction can be valid - with far reaching consequences concerning common understanding of physics.

Coarse Matter Vortices

Previous motion principles are only valid, if ether is considered to be gapless continuum. Locally limited movement system within ether are only possible in principle shape of Potential-Vortex-Clouds. Pattern of Potential-Vortex-Clouds can wander through Free Ether, either by light speed (if exactly resonant to Free Ether) or with any lower speed (like e.g. free electrons resp. like shown in principle at picture 03.11.03 upside). Naturally also assemblies of Potential-Vortex-Clouds (e.g. atoms or molecules) or their accumulations (e.g. earth) can wander through Free Ether or 'tumble-around' within any kind.

Finally at that level starts 'material world' and are valid their physical laws and characteristics, e.g. of different density or heat. Materia is put together by numberless tiny Potential-Vortex-Clouds, materia by itself however is no Potential-Vortex (e.g. earth rotates as solid body resp. rigid vortex). Each little cloud of these 'material' accumulations has its own balancing region, thus borders at Free Ether without problems (however exists no more 'pure' Universal Ethermovement inside of such compounds). Earth by itself (like comparable celestial bodies) demands no correspondingly wide balancing area (like Potential-Vortex-Clouds demand, e.g. by billions larger than core). Nevertheless there are appearances within neighbouring areas around earth, e.g. gravity and magnetism.

At previous chapters was mentioned, at outer boundary areas of Potential-Vortices exists smooth transition (from universal shape of motions to coarse, long-stretched motion's pattern). Within these regions also exists that pressure of Free Ether, practically its phasewise resistance versus actual contrary motions.

Also within environment of compounds of Potential-Vortex-Clouds this stepwise transition exists and also previous pressure correspondingly. Resulting of is appearance which is described as attracting force and commonly called gravity. Attracting forces can exist at no case, within no medium (besides purely abstract within fictive media). Relative pressure (called gravity) exists only within 'aura' of celestial bodies, only within small boundary area of transition around material accumulations (not like theoretical unlimited wide balancing areas of Potential-Vortex-Clouds). Gravity thus is occurrence locally limited, around all celestial bodies, however not affecting into boundless space, even not working between sun and planets.

At rotation of earth around its axis, no 'materia' is moving within space. Only pattern of each single Potential-Vortex (this assembly of solid, liquid, gaseous, 'dead or living' occurrences) move ahead resp. around within relative resting ether. Ether by itself is (nearby) not bothered by this process of passing by vortices. Inside of earth however, Free Ether between these narrow arranged clouds naturally is no longer quite 'virginal'.

Viewing from outside onto border areas of Free Ether towards earth-materia, Free Ether is 'brushed' by earth rotation all times same direction. Ether there is not transported far away, nevertheless that 'wind' of passing-by motion-vortices results some small swinging vortices of Free Ether, parallel to earth axis. These vortices don't reach far into earth and they reach outward - as far as earth-magnetism exist.

Radiation from sun deforms this 'field' of earth-magnetism and opposite, 'hard' radiations are affected by this field. Small swinging motions of earth-magnetism naturally overlay motion's pattern of ether within 'aura' of earth, naturally also previous 'gravity' deforms ether of this region. Thus naturally light moves other kind near celestial bodies than light moves at 'out-back' of universe. Light already is diffracted at any sharp edge - however not based at Relativity-Theory (and abstract mathematics), but based on quite real ether motions of most diverse shape (which are not to describe by simple 'world-formula').

Detailed Descriptions

Previous mentioned movements of wandering Potential-Vortex-Clouds could only mark principles in general by few examples. Each of these (and further) appearances are to describe in details by new parts and many new chapters.

Finally here were mentioned some examples of motion and rotation of material bodies, which are only secondary occurrences of ether movements. Also these subjects of 'classic physics of material world' demand further detailed descriptions by separated sections.

Nevertheless some readers already got sufficient stimulations for developing own ideas to their special subjects, based at real ether-continuum and its inevitably resulting motion-pattern and occurrences.

03.12. Summary Local Ethermovement

Obvious

Looking at picture 03.12.01, everyone immediately recognizes model of atom. Everyone knows, electrons circle around atomic nucleus like planets around sun, and it's common understanding all materia is build of these brick-stones. Even some years later, only some will recognize picture 03.12.02 as model of Potential-Vortex-Cloud, and only few of could explain story like this:

At early times one did believe, universe would be gigantic gaping void, within which are spread only some few material particles or atoms or solid bodies. One did believe, universe would be full of 'electromagnetic' radiation (where only light is visible for us), full up of 'fields' (e.g. gravity) and at the other hand, there should exist 'dark energies' with most strange properties (in order calculations become reasonable).

Today one knows, universe is only one 'manifest' stuff, is of substance of ether. Also this matter has most strange properties (really unique ones, because ether is unique real 'materia'), as this ether is real continuum, thus gapless matter, thus same density everywhere.

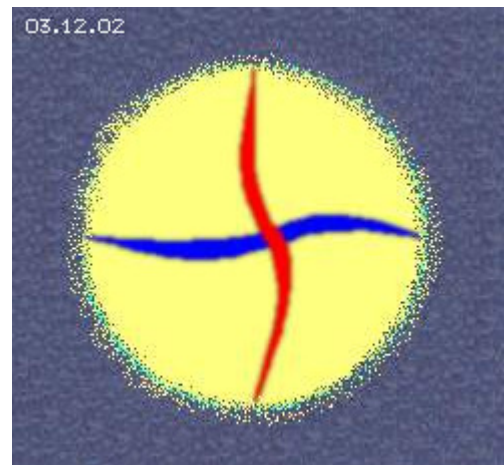
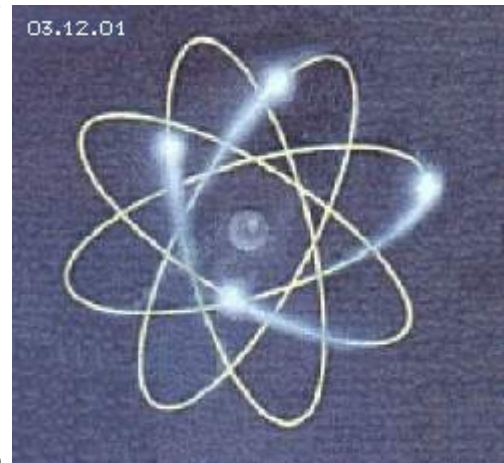
This matter has an other strange property because it is steady moving at minimum small area, practically some trembling at spiral tracks, winded within itself, showing like a cluster. All ether is moving at these Spiral-Cluster-Tracks, i.e. all 'points' (there are no parts within, thus one can speak only purely abstract by points) move parallel to each other. This dark-patterned background at this picture could represent this Universal Ethermovements.

If anything anywhere within this uniform ether should move other kind, this Local Ethermovement all times has to show properties of Potential-Vortex-Clouds in general. This motion's pattern is characterized by twisting movements around longitudinal axis (here marked by red S-shaped line) and tumbling movements at equatorial level (here marked by winded blue band). These 'connecting lines' are drawn only as examples, every ether within this cloud is moving by synchronous swinging motions, all times at tracks into all three dimensions same time.

Characteristic property of Potential-Vortices is, most large movements occur at centre, while motions further outside are steady decreasing (opposite to material world, where preferably most large motions occur outside, e.g. at any wheel turning as 'rigid vortex'). Opposite to material world, within ether occurs no turn-around (like rim turns around axis) but only swinging motions are possible (e.g. neighbours at left side of previous connecting lines keep all times left).

At outer border areas exists transition from coarse motions (within wider areas of 'Bounded Ether') to fine motions (within narrow dimensions of Universal Ethermovement) of 'Free Ether'. Potential-Vortex-Clouds thus have a core of motion and around this a huge area of balancing motions (where this balancing region is larger than central 'trembling' by 'astronomic' relations). However, at centre is no 'solid core', but throughout cloud is nothing else than quite normal ether. Only that little bit other structure of motion's pattern is differing fact (and there is no real hard border, i.e. that cloud theoretically is to recognise even by 'unlimited' distances).

Like Potential-Vortex-Clouds move all locally limited occurrence: galaxies and sun systems, e.g. also electrons or photons - or all other appearances are build by assemblies of Potential-Vortex-Clouds: atoms and molecules, solid bodies e.g. up to planet earth. Finally at this level exist (apparently) separated parts, thus also different density or heat, and only at this level properties and laws of material world are valid.



Nevertheless, also this materia not really wanders through space, but only movement's pattern of its Potential-Vortex-Clouds (they are build of) move through ether rather stationary within space. Nothing is solid, everything is in motion. As only ether is existing stuff, only differing motions of ether within ether is existing reality. On the other hand, ether is medium not only for material occurrences, but same ether is medium of all spiritual appearances totally analogue, only their swinging movement's pattern are some finer. Really everything is connected with everything absolutely direct kind and naturally there are immediate mutual influences between all occurrences.

Sea Waves All Around

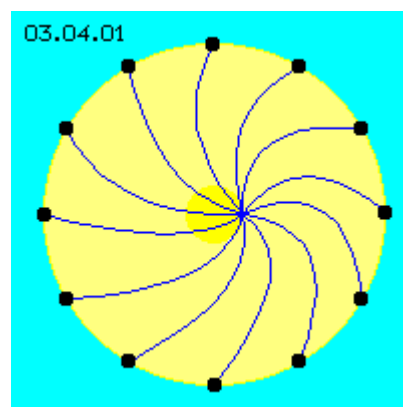
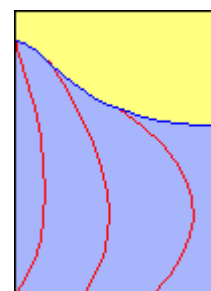
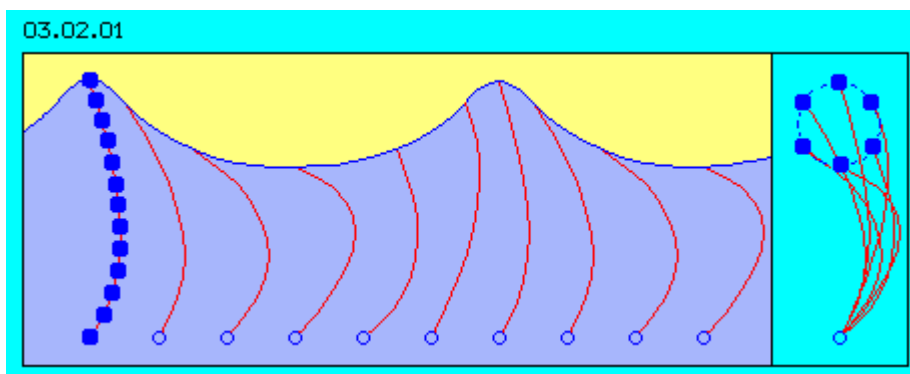
Because this view of world yet is not common understanding, I had to write many long chapters in order to describe these obvious facts step by step.

It's already obvious for many people, there can't exist 'void' universe, but throughout there must exist ether. However, there is no common understanding about its properties resp. its characteristics are not defined exactly. Often ether is describe 'like a continuum', however nobody has courage to assume ether to be real continuum - because motions within that 'monolith' are hard to imagine. Objectives of that part 'Local Ethermovements' just are: to approve possibilities of motions within gapless medium.

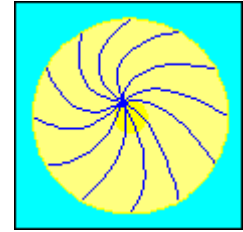
Starting position of considerations was appearance of sea-waves running ahead. Water deep downside is 'resting', water upside is intensive moving, water between is swinging by circles, from downside upwards increasingly wider, visible e.g. by 'connecting lines' of large tang-stalks.

At picture 03.02.01 are shown several phases of this motion's process. At this picture right side schematic is shown, how these lines are stretched and bended, so not only water parts most upside (blue) but all take part at circled swinging motions. In reality, this circle motions are overlaid by further circled motions, e.g. as centre of circle by itself moves at circle (here not drawn).

Obvious here is difference between turn-around (prevailing at material, e.g. at rotating rigid wheel) and this swinging at circled tracks (where e.g. tang-stalk left side keeps left to its neighbour all times), which is exclusive motion's pattern within ether. Animation left side down shows that (more or less 'parallel') motion of connecting lines and same time shows secondary appearance of wave running to left.



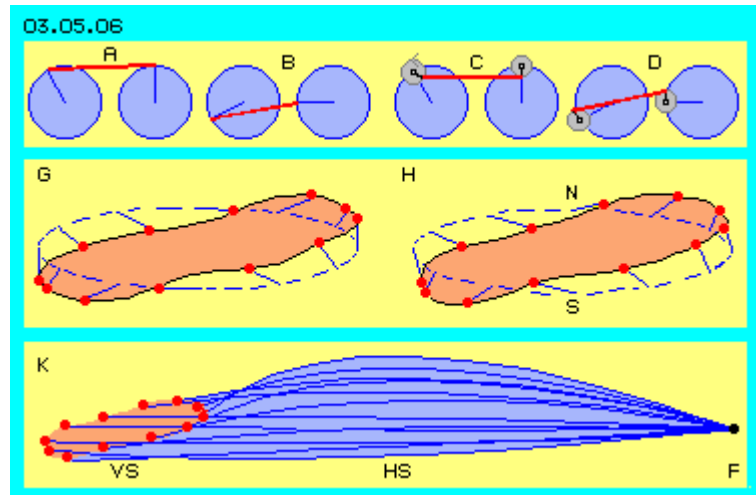
By second mental step, now these 'tang-stalks' are arranged all around, so outside medium is 'resting' while 'upper' parts of tang at centre swing at common circled track. At picture 03.04.01 corresponding connecting lines from (resting) Free Ether (black points) to central point (blue) of Bounded Ether are drawn. Animation right side visualizes that swinging around within circle.



These motion's processes are described in details at chapter 'Overlays' and 'Swinging Disc'. At chapter 'Circulating Wave' is described further wave, which again results only of circled motions.

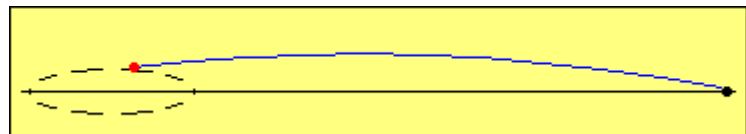
Circulating Waves

Water exists by parts, which can shift alongside each other anyhow, so water parts of vertical plane can produce these sea waves. Ether doesn't exist by shiftable parts, so movements can not occur only into one plane, but motions must 'get out of way' all times into third direction same time. Swinging around one axis demands simultaneously swinging around axis right-angled.

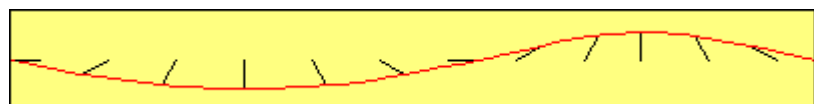


At picture 03.05.06 at K is shown red point swinging motion around vertical axis (VS) in connection with swinging around horizontal axis (HS). Plane of circled track thus is inclined to axis (like known by sun systems and galaxies). Distance between central swinging point (red, marked at twelve positions while rotating) to point (black) of Free Ether (F) is varying. Connecting line must balance this difference by additional swinging motions (blue area).

At animation below is visualized, how connecting line is winding and bending.



Within ether can not occur motion to and fro between 'dead-points' resp. meanwhile stopping of motions. So this bending again has to occur by steady swinging motions at (sloped) circled tracks. In addition, not only one connecting line has to swing, but all connecting lines at this equatorial plane simultaneously. This is only possible, if all motions around centre are phase-shifted.

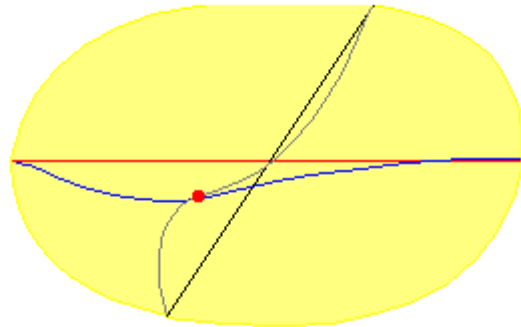


This is marked at picture 03.05.06 schematic at G ('clock-hands' all around show at other hours). At animation that band of these hands (thus circumference) is rolled off onto picture's plane. All hands do circled motions, each phase-shifted versus next

hand. Connecting line between hands result appearance of circulating wave (which is called 'magnetic field' of electromagnetic occurrences).

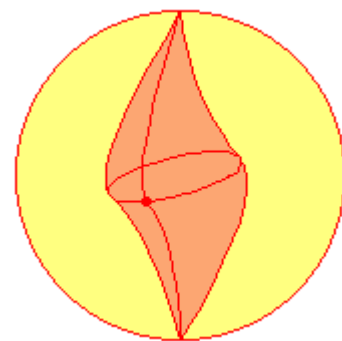
Tumbling Axis

At animation left side are drawn two connecting lines of equatorial plane. Their bending and winding results of phase-shifted swinging motions, all turning steady into same direction of turning sense. It's to recognize coming up of 'hills and valleys', i.e. 'material' upside and downside of this plane has to be moved cross poles.



Also this process is done by steady swinging motions (like visualized by animation right side), where appearance of twisting-tumbling motions around longitudinal axis of this Potential-Vortex-Cloud comes up (which is called 'electric field' at electromagnetic occurrences).

At these animations are shown motion's processes of only three connecting lines. Naturally all ether within that cloud is in motion, where motion's pattern between poles and equator show smooth transition of both movement's shapes. However also within equatorial plan, swinging motion is not identical into all directions. Thus Potential-Vortex-Cloud does not show uniform pattern of motions into all directions at all.

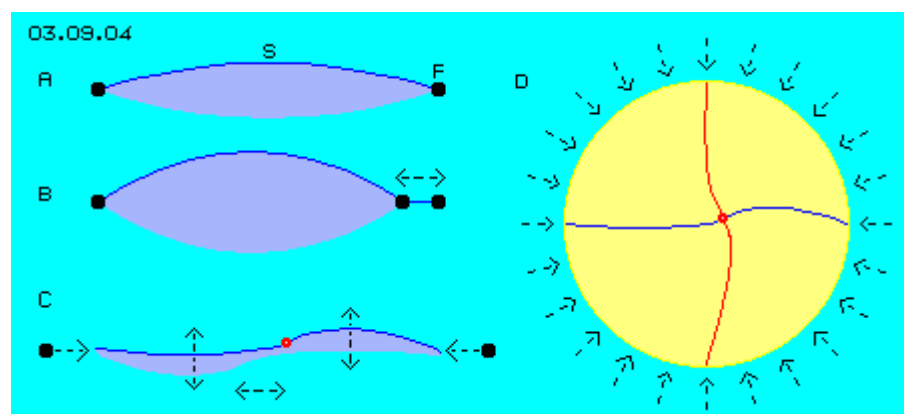


At some of previous chapters were described laws of that 'Bending and Winding' and also that prevailing left-turning 'Movement's Directions', i.e. how these motion's pattern fit into Universal Ethermovement resonant at its best. Directions within universe are only to describe relative to fictive coordinates system (pure abstract 'space'). Lastly relevant however only is, if motions actually are into likely or contrary directions.

Drive, Resonance and Pressure

Essential question is 'Movement's Drive' resp. why Potential-Vortex-Clouds can exist steady. At picture 03.09.04 schematic are shown some points of view concerning this problem.

Previous connecting lines could simply be assumed to be swinging violin-string (S) between stationary points (F). Free Ether (F) is relative resting, nevertheless is 'trembling' by high frequencies at its



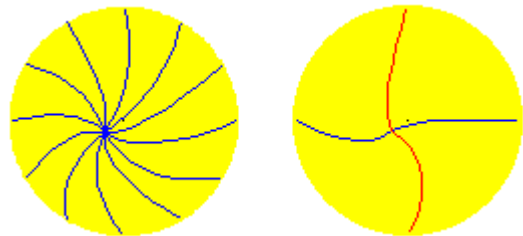
minimum small Spiral-Cluster-Tracks. That violin-string comparably swings by lower frequency however within larger areas (amplitude). Between both movement's pattern phasewise exist motion into same or contrary directions.

Behind point of Free Ether stands 'whole wide universe'. At phases of contrary motions, thus Free Ether resists versus actual swinging of this relative small string. Resulting of is 'higher' tone, i.e. swinging motion can only react by stronger deflection (B). As soon as likely motions actually occur, swinging motion comes back to original shape.

Surrounding ether thus affects pulsating 'pressure' onto whole surface of Potential-Vortex-Cloud (D), thus temporarily builds up amplitudes of internal swinging motions (C), which phase-shifted resp. all times can 'relax' into directions of actually less resistance. Only if internal swinging motions are sufficiently resonant with Universal Ethermovement, these local movement's pattern can exist steady. At other cases, Universal Ethermovement will 'knead' cloud into adequate shape (or cloud will be dispersed).

Real Potential-Vortex-Clouds

This animation shows once more general principle of motions, by view cross to and alongside of longitudinal axis. Connecting lines won't show this simple shape in reality, but each swinging motion is overlaid multiply, so these curves will show 'loops and eyes'. In addition, practically each Potential-Vortex-Cloud will show individual characteristics, caused by 'environment-impressions'.



Nevertheless, this motion's pattern in principle is the only possible shape for locally limited motion-units within gapless ether. That's why lastly all occurrences within universe are 'Potential-Vortex-Clouds' resp. are combinations of such clouds.

Rather impressive (and most individual) are vortices of galaxies, where connecting lines become 'visible' by spiral arms, because into these regions stars are floated (based at previous 'ether-pressure'). At centre of galaxies meet all connecting lines (with their most different swinging motions), so there is 'hot spot'. There is no special weighty 'mass' at these cores, everything and everywhere is just normal ether - only within most different motions.

There are no attracting forces at all (and there is no incredible strong gravity even of 'black holes'), ether by itself is 'coherent'. Based on different motions (resp. lastly only based on phasewise likely or contrary directions of actual motions) previous pressure exists and resulting of is tendency for accumulations of some Potential-Vortex-Clouds.

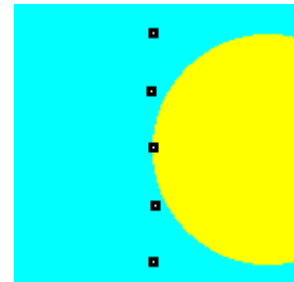
Analogue facts are valid at micro-cosmos where e.g. free electron or photon are Potential-Vortex-Clouds of relative simple structure. Atoms for example have no core of 'special substances' but everything is throughout of normal ether. Atoms are just assemblies of diverse little clouds (commonly called electrons) or relative large clouds with complex motion structures.

A sun is large potential vortex, however not sun by itself but volume of whole sun system. Sun is only core of motions, surrounded by wide balancing regions, larger by billions. Connecting lines of sun system are not visible, only within some 'eyes' some planets are floated around sun-core by apparently circulating waves. Planets represent some other resistance (than normal Free Ether), resulting special 'streak' within swinging motions of connecting lines, to recognize e.g. by 'magnetic storms' between sun and planets. So there is quite real mutual influence between these celestial bodies.

Most people recognize - strange enough - all stuff of mental-spiritual contents as matter less real. Nevertheless it's unquestionable, local motion's pattern are not only previous 'coarse-matter' occurrences. Finer overlays are less 'stubborn' versus Free Ether, are stronger resonant to Universal Ethermovement, thus can exist long term and show most wide circumferences. These 'fine-matter' Potential-Vortex-Clouds also show less resistance mutually, thus can overlay each other without problems (opposite to 'coarse' potential vortices and their 'crude' accumulations, which are mutually impenetrable). Because 'spiritual' potential vortices practically are omnipresent, they can affect as ordering factors (like Universal Ethermovement) resp. at least there are mutual influences between material and spiritual appearances, totally real via motion's pattern within and of single substance resp. medium existing in universe.

Wandering Vortices

Potential-Vortex-Clouds are locally limited occurrences, but are not stationary at certain place. Opposite, everything is in steady motion, so these clouds take different places as time goes by. However, there is never any 'mass' moving ahead within (abstract) space, but only structure of that special motion's pattern wanders through relative stationary ether.



At this animation is shown, how Free Ether (black points) takes up and executes motions of pattern of Potential-Vortex (yellow cloud), each point only temporary by its part. After this short dance, each point of Free Ether at its original location again swings at its normal universal Spiral-Cluster-Tracks.

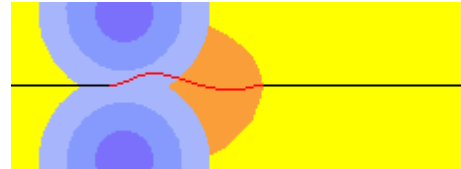
Each point within cloud has impressed impulse-ahead onto its internal motions. Some higher resistance affects at frontside of cloud within contrary phases, so these connecting lines are some more compressed, so swing some more intensive into cross directions. As soon as at frontside comes up less resistance, cloud stretches ahead by 'jumps'. Already by classic physical understanding, material bodies can move within Ideal Gases theoretically without friction losses. Here within gapless ether, motions indeed are without any delay and friction, because no single 'impulse' can got lost, here e.g. is stored temporary by more intensive swinging amplitudes.

Electromagnetic Radiation

If Potential-Vortices wander through ether, collisions naturally will occur. Clouds at outer areas show diverse motions in differing directions. As a rule thus by collisions meet contrary movements, so mutual resistance comes up. As mentioned upside, internal motions become more intensive and 'tensions' disperse as both clouds fly off into directions of less resistance.

However, Potential-Vortex-Clouds can hit onto each other so fast, their contrary movements are not compensated already at their boundary areas. At these situations comes up 'stress' within ether and danger of 'boundary layers'. At earthquake tensions are compensated by shifting of parts alongside each other. Within gapless ether this procedure is not possible. Collision partners contribute contrary motions, which only are to compensate by motions right-angled, thus producing new Potential-Vortex-Cloud inclusive impulse-ahead.

This animation for example visualizes 'birth of a photon'. This motion pattern only comes up by 'stress-situation', i.e. total structure of new Potential-Vortex-Cloud (twisting motion around longitudinal axis, tumbling motion at equatorial plane with its phase-shifted swinging into all directions simultaneously, inclusive its inevitably balancing motions within wide surrounding area) is build with most fast speed of changes of motions within ether - and even by this light-speed new cloud flies off.



Cloud is born of Universal Ethermovement (which is temporary extended at spiral tracks), thus is absolutely resonant to Free Ether, thus can jerky jump ahead at its best (analogue cloud upside, which however is wandering much slower). This photon-cloud however 'screws' through Free Ether by that maximum speed. As 'RPMs' are conform, this cloud however can not travel slower.

If at the other hand however, Free Ether is not moving within pure shape of Universal Ethermovement (and this pattern practically everywhere is overlaid by multiple other pattern), this photon can move ahead only adequate to that 'coloured' ether. As overlays mostly are asymmetrical, light is bended (thus don't move linear) or light is slowed down (e.g. within water or glass or air with its diverse 'distorted' motions of Semi-Free Ether, naturally also near celestial bodies).

By previous process, at no case got born any 'particle' nor classic longitudinal- nor cross-waves (and particle-wave-dualism not at all can represent reality). Still as ever all ether keeps stationary in principle (besides its narrow swinging at this location). Only pattern of new motion is send far away by light-speed. Like mentioned upside, also at this runway Free Ether executes only short time motions corresponding to pattern passing by.

Common Materia

Common materials are no Potential-Vortex-Clouds but are only assemblies or accumulations of Potential-Vortex-Clouds (e.g. combinations of electrons are atoms, these can build compounds of more or less cohesion, e.g. in shape of molecules up to solid bodies e.g. like earth). Finally and only within this material world their laws and properties are valid, e.g. of differing density or heat.



Also these connected Potential-Vortex-Clouds move like any single Potential-Vortex-Cloud only in shape of their motion's pattern through (relative resting, stationary) ether. No 'mass' is moving or turning and there is no 'mass inherent inertia' (which is only expression of 'bulky-ness' of one cloud versus other motion's pattern).

Earth moves ahead and rotates like rigid vortex. If this large motion's pattern did wander through a location, afterwards remains (nearby) unchanged Free Ether and its normal motion at this place. These 'material' bodies demand no wide-reaching areas of balancing movements around.

Rotation of earth however affects e.g. some 'ripples' within surrounding ether, commonly called earth-magnetism. Within boundary areas between materia and Free Ether exists smooth transition of motion's pattern (analogue to border areas of Potential-Vortex-Clouds). Also within these transition-areas exists previous pressure of phasewise more or less contrary motions - which commonly is called gravity.

Appearance of earth magnetism is well known and one also knows it's existing only at limited distances. However also gravity affects only at relative small radius (e.g. gravity of earth reaches not even up to moon), gravity not at all is universal stand-alone 'force' (and at no case it's attracting force). Inevitably come up results completely wrong, if this (earthly) 'constant' is projected into wide and (alleged) empty universe, as common science assumes.

Self-Image

This brief summery can remember only to some essential points of view of previous chapters, which there are described in details. Further details of last mentioned subjects demand many new chapters at further parts of this workout. Some readers however will already have found interesting starting points for own considerations based on gapless ether-continuum and its inevitably resulting necessities and limited possibilities of motions.

We 'coarse-matter-humans' do hard with idea, we only are motion's pattern wandering through ether. We stick on materia, feel as 'owner' of our body - and now we should not possess even some 'own portion of ether', some 50 to 100 litres, should only be (transient) motion-pattern, which merely impresses ether while passing through. It's not very helpful to know, also everything else is not 'sturdy' but all appearances are just movements of ether within ether.

At least there is lot of energy within our body: numberless tiny Potential-Vortex-Clouds are swinging (probably by light speed) rather stabile. This 'mass of motions' is not easy to stop. As these motions are resonant to Universal Ethermovement to a great extent, these pattern are well embedded within cosmos. Same kind steady and mighty are all other physical appearances - even lastly nothing else than also 'only' motion's pattern, continuously wandering ahead and around.

However, some people already got idea, primary to feel as spiritual creature, which only temporary incarnates within material body. Soul serves as mediator between material and spiritual world. Mental-spiritual processes are not only chemical reactions of nervous system (which only has antenna and controlling functions). Ideas and feelings however occur directly within ether (like lastly also all material-physical occurrences do).

Analogue to coarse-matter body, also our fine-matter existence is embedded within comprehensive motions pattern, within these practically also omnipresent Potential-Vortex-Clouds of fine-matter contents. However, this involvement is not absolutely compelling, because there is not only one basic pattern but there are multiple, even

individual variations of (within principle structure of Potential-Vortex-Clouds). So we can search resonance to many 'spiritual clouds'. Nevertheless I understand these appearances not only as spiritual-abstract meta-physics, but based at 'massive' real ether and its most complex overlaying motions.

Objectives of this workouts are, common physic should not restrict its self-image only to mathematical-abstract research, but should search again for explanations of really basic essence of all occurrences. Existence of ether was matter-of-factness for long times. In order to explain diverse occurrences, ether should have to be 'hard like steal' and 'soft like Ideal Gas' same time. Efforts failed by these diametrically opposed properties and idea of real ether was replaced by only abstract term of 'fields'.

Now I was able to demonstrate by motions principle of Potential-Vortex-Clouds, motions well are possible within gapless ether-continuum and how these motion's pattern can wander through resting ether (because no 'masses' must pass through, but only structures of vortices move ahead). So science discussion now can come back from pure mathematical-abstract 'time, space and fields' to real procedures of and within ether.

However it will take years and demand work of many people until these first ideas will result sufficiently detailed explanations for all occurrences (material like mental ones). So it will take time for common understanding, really 'all is made of one' and absolutely direct 'everything is bound to anything' - with its wide-reaching consequences of physical like mental-spiritual concern.