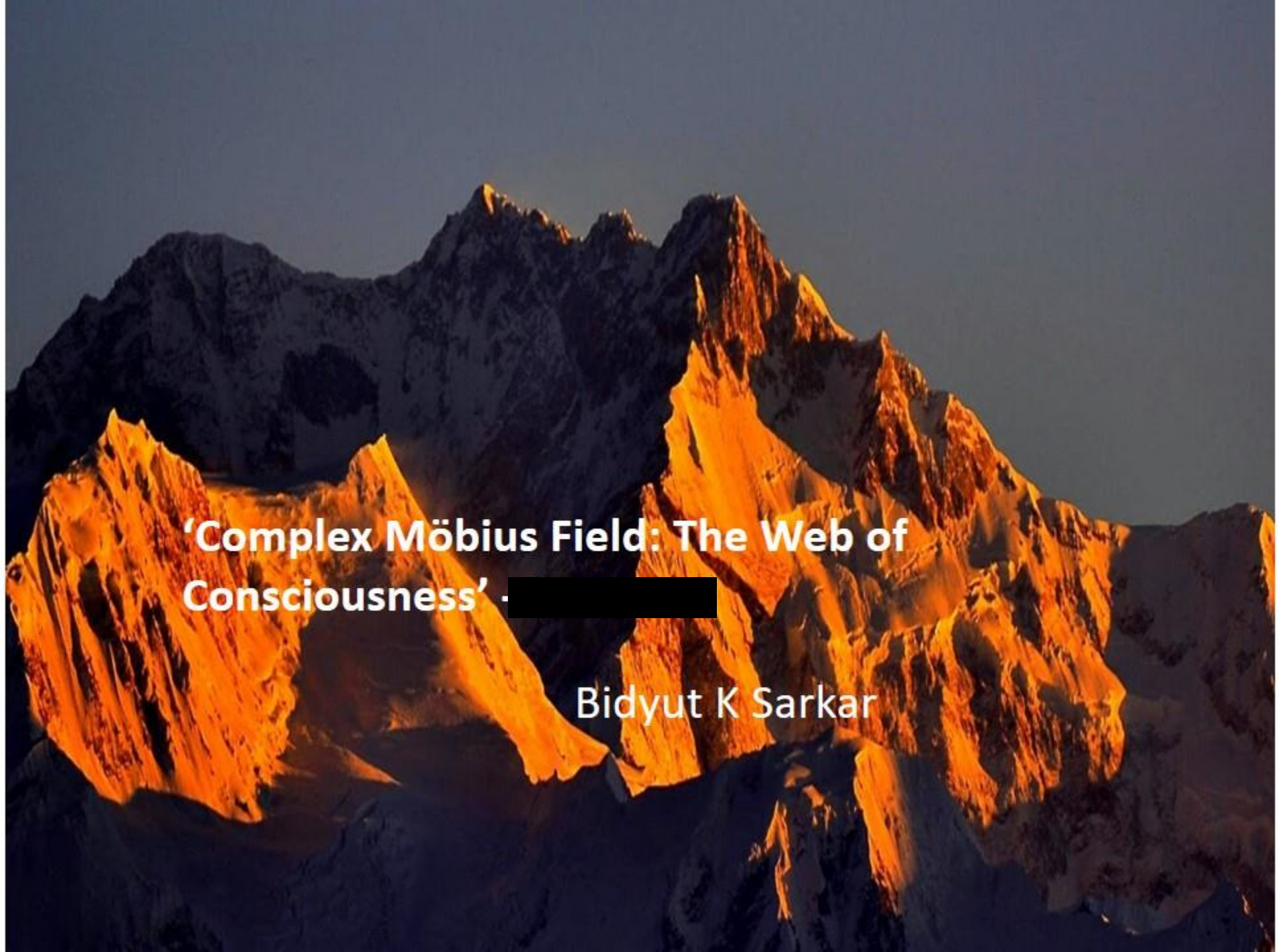
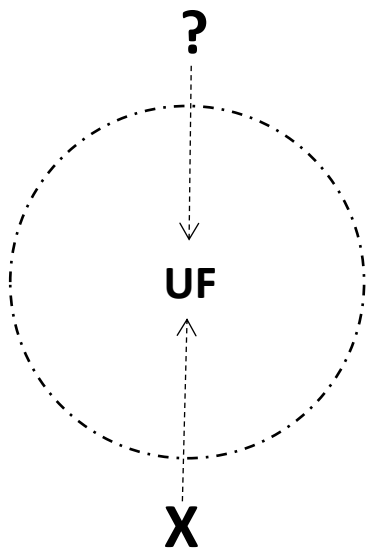

‘Complex Möbius Field: The Web of Consciousness’ ·
Bidyut K Sarkar



- ? Source of Unified Field (UF) – an everlasting question.
- ? No-question solution of this open Paradox.
- Here, unknown X (algebra) → Null Field.
- No value: either Zero or Infinite or Both is an absolute – finite operator values of rest 4 fields may be *assigned* only from diffeomorphic finite periphery.

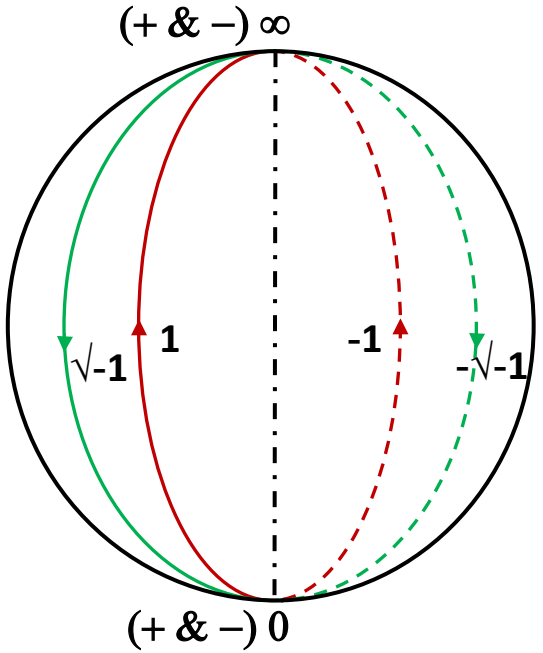
- Center to periphery (c) or inside-out and periphery to Center (p) or outside-in.

- On relativity-viewpoint: There may be a stationary point or unbending trajectories with infinite speed – May be the basis of Newton's 1st Law.

- We do not encounter these absolutes in our vicinity except in the axioms of linear or Euclidean geometry where we find a point (0-dimension) and infinitely stretched straight (absolutely unbend/unbiased) lines.

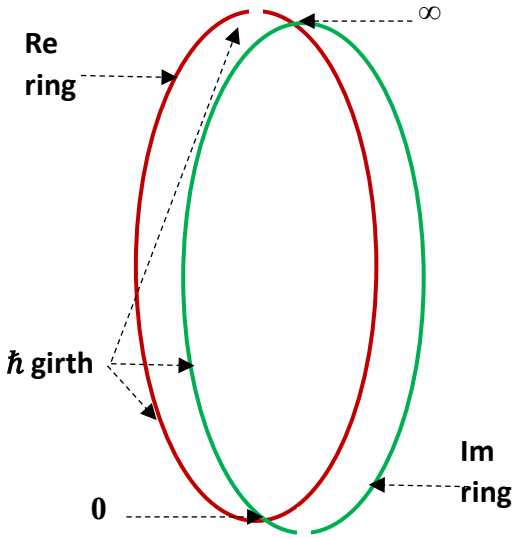
- In number system: '0' and '∞', two absolutes. The two may unify into one in Euclidean topology.

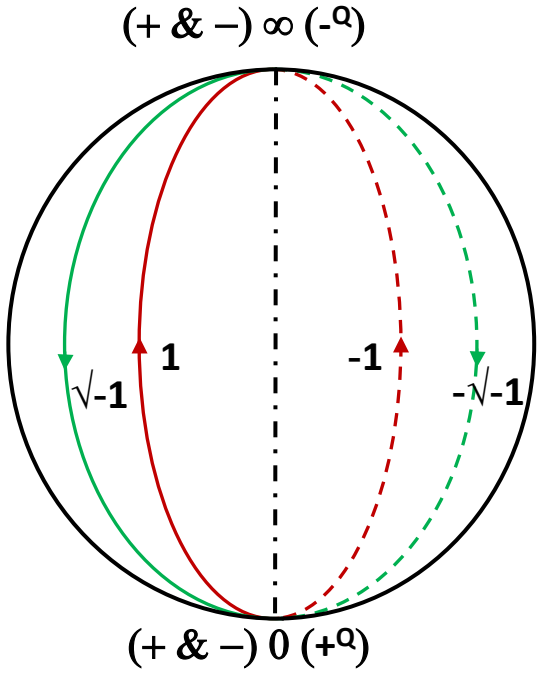
- From '0' infinite trajectories diverge in infinite directions (∞ dimensions) where ultimately they meet at '∞'.



- Real numbers (Re) ascends upward and forward (fwd) from 0 to ∞ in ± (both) ways.
- Imaginary numbers (Im) ascends downward and backward (bwd) from ∞ to 0 in both ways.

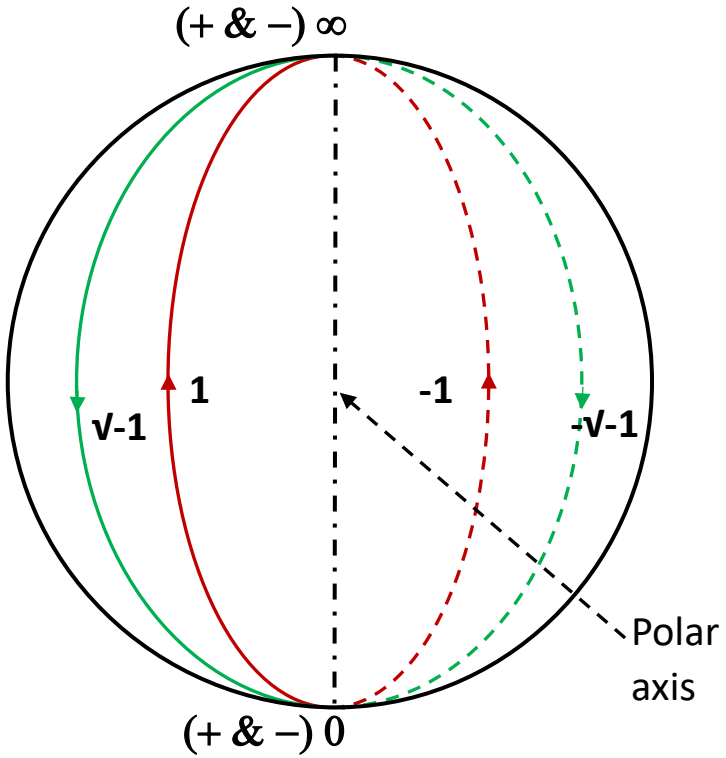
- Re-Im counter-complimentary rings with complimentary polar slits of $\hbar$ girth.
- Can fit with each other only orthogonally.





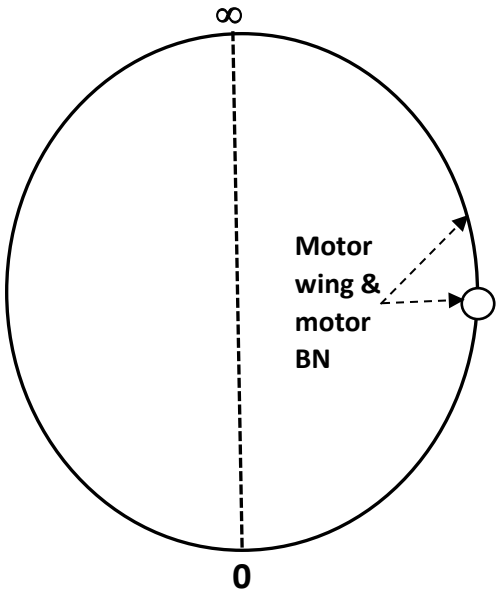
- Trinary existence: Re (Principal), Im (Auxiliary) and Polar axis (Central Null Space) as central witness {centrality or Unitarity (c) vs polarity or duality (p)}.
- In finite peripheral perspective, Re may be replaced suitably by position ($\mathbf{p}$) and Im by momentum ($\mathbf{m}$).
- North pole holds infinite mentalism or objectivism and south pole infinite physicalism or subjectivism.

- Position, + (Re); point, ^{Q}, ($+^{Q}$ in singularity) in south pole where momentum or velocity is infinitely diffuse within (a state simulates superconductivity).
- Momentum, - (Im); point, ^{Q}, ($-^{Q}$ in singularity) in north pole where position is infinitely diffuse without (a state simulates superposition).



Trajectories topologically may reduce in 2D-spherical surface : '0-∞ Conjugate'

- '∞' is at North pole – an external point (Self-organizational dynamism → Inner null or GDS fulcrum): Fulcrum is the inflexion point.
- '0' is at South pole – an internal point (Self-organization → Outer null or EDS fulcrum).
- Polar axis is Pure back-back entity (c) has the strength to be singularized add two absolute points Re|Im topologically. Two approaching extremals (±) at two poles are mixed entities - Null derivatives: diffuse and consolidated. Former is related with Im polar axis and latter with Re equatorial axis that conforms orbital finites on incorporating infinites equatorially.



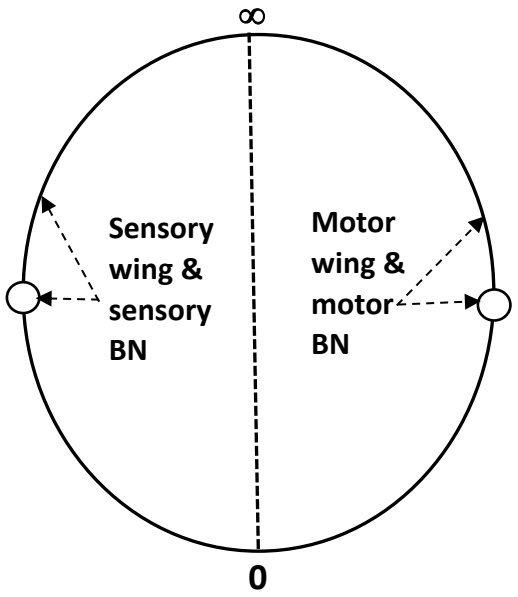
- ‘0-∞ conjugate’ is ‘Static Euclidean Field’ that supports additive polar group action (p) where polar axis shrinks. Indeed it doesn’t suffice to support life and our universe.

- ∞-position at north pole antagonise spinor because it is on infinite but 0-position at south pole supports spinor, clockwise spin (c), orthogonally at Bosonic Null (BN) in the equator.

- Here, ∞ position at north pole rather supports unspinor (anticlockwise spin).

- Or, neutralises torque and spin within polar axis and BN where 0-spin is ensured.

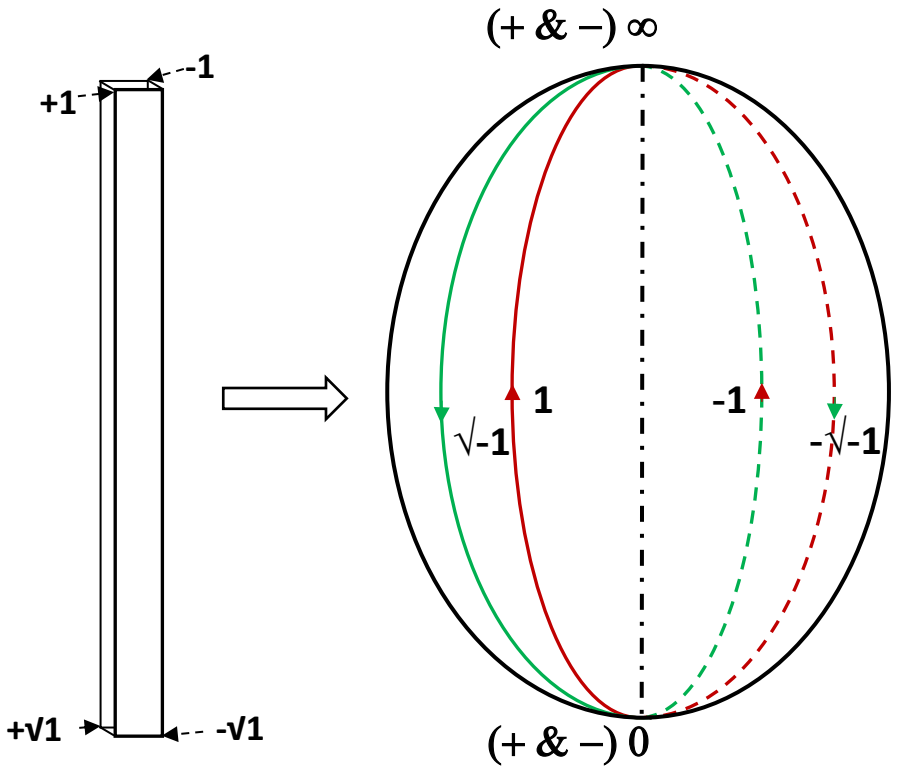
- Spins support multiplicative group action where polar axis stretch out.



- Infinite spin clockwise and anticlockwise simultaneously at absolute motor BN is equivalent to 0-torque and 0-spin (additive) right at center → validate potential infinite discrete Euclidean spaces equatorially (multiplicative; absolute unbiased Pure Randomness) that has no parameter.

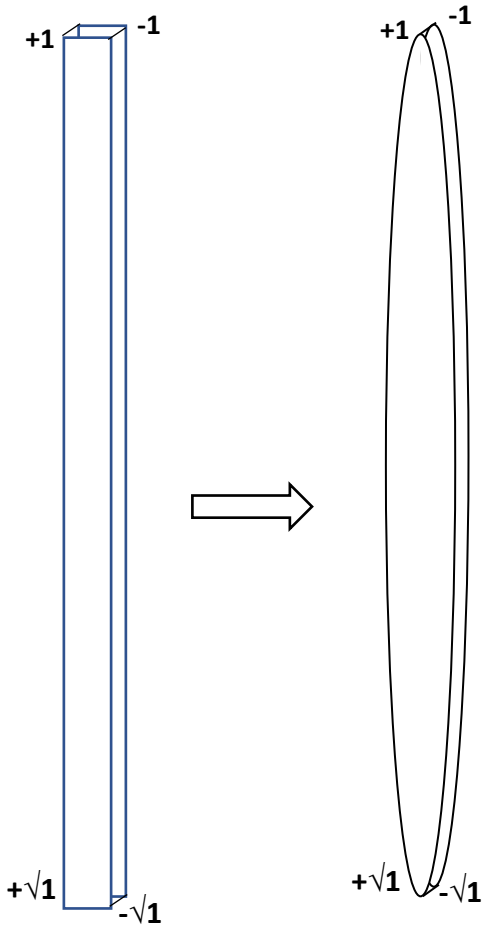
- Thus absolute motor wing and polar axis are equivalent that belong to no space-time and additive in nature (p). It represent a potential dynamic Euclidean field or Null field.

- Sensory association space can exist only on rotational invariance i.e., finite spin lead finite clockwise and anticlockwise rotation alternatively (not simultaneously except tiny Central Null Space or trivial Null in between) supported by absolute motor wing. Here two complimentary systems (1 & 2) play an inertial game: Clockwise multiplication attain extreme status (1) - complimentary slowing (2) – pure addition (2) - anticlockwise multiplication attain extreme status (2) - complimentary slowing (1) – pure addition off the center incites negative feedback (1) - cycle continues finitely.



Topological Equivalency

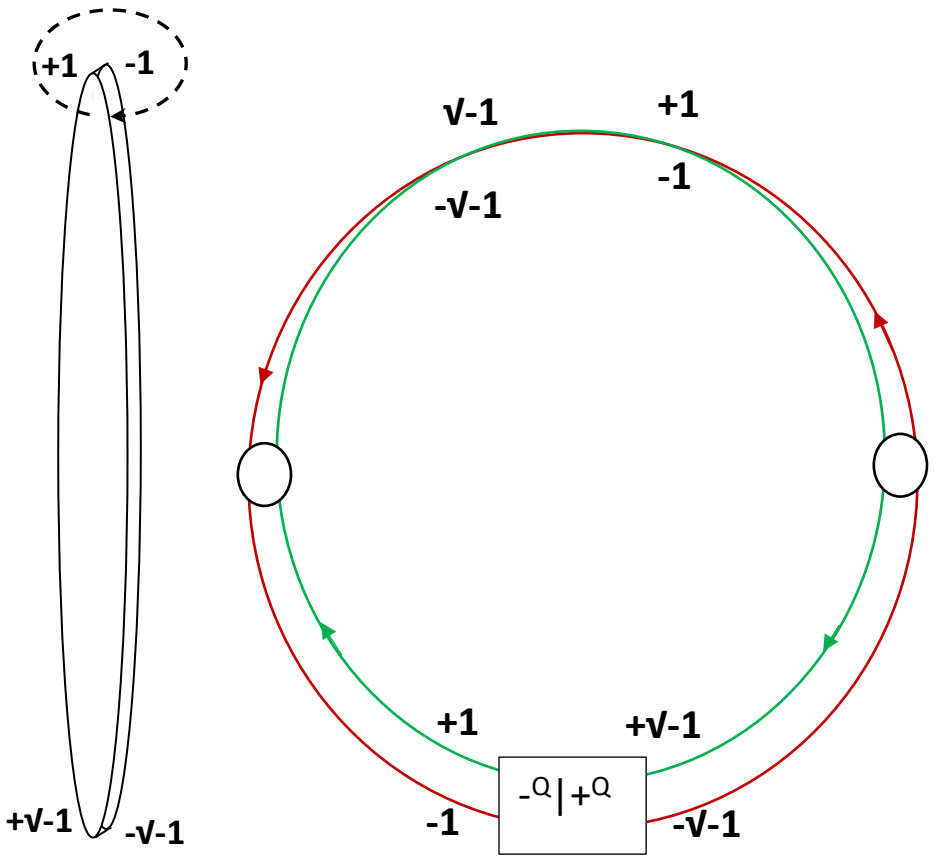
- Flat strip of paper may be projected topologically as sphere.
- Top and bottom edges correspond to polar regions.
- Two hemispherical 2D-surfaces enclose central null space (CNS) or Elementary dimensional (ED) singularity.
- But self-organization demands point ended strip, pivots at one end, on $-^{Q}$, in configuring manifold Möbius strip.



- Pointed ends designate common beginning (Big bang or ON - Ontogenic Null at Im end) and common end (Big crunch or FN – Fermionic Null at Re end). Strip in between supports infinite individual journey, ever possible.

- Even spin at one end and alignment of ends always fail to enclose media (or here, paper substance) in between. This favors structureless initial vertical disposition with even dimensions at two disconnected ends i.e., relaxed flat vertical strip or Even ED (Even Elementary Dimensionality).

- Odd spin at one end and alignment of ends not only enclose media within convex and concave surfaces that allow rotation either way or both ways except at Bosonic Null but also simultaneously entrap bosonic space (BS) within 3D fold as a transform of CNS.

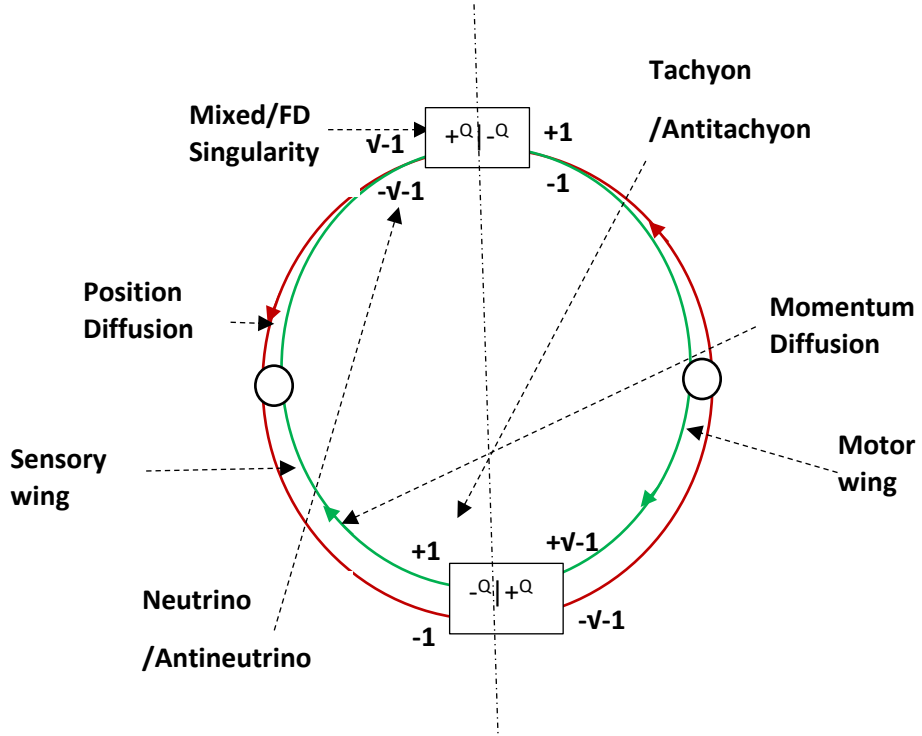


Lt. untwist and alignment - Group Untwist. Self-organization on Re end pivot

- Conventionally in Complex Möbius Field (CMF) ∓1, Re systemic untwistor/twistor, are clockwise operators and ∓√-1, Im systemic untwistor/twistor, are anticlockwise operators.

- But active odd untwist involves operation on Re end with Lt. hand while static Im end in Rt. hand supports passive twist operation during alignment. This executes crystal solid outcome (f_3) in opposite flavour out of diffuse information (f_4). 180^0 turn is 1D raise. CNS splits in mixed singularities in dual fulcrums, on zero curvature 360^0 apart, after odd alignment.

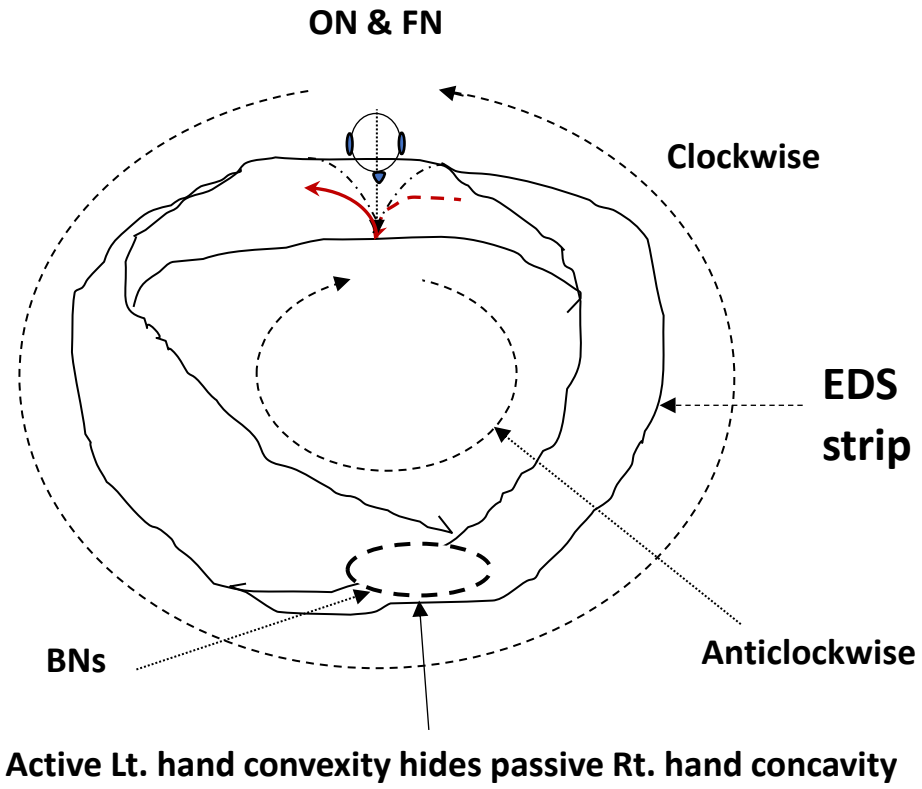
- In reality self-organisation is executed from equator, not by manipulation at polar ends; although C-symmetry retain all conventions.



- Joint group untwist operation has two components : odd untwist at one end is multiplicative inverse operation and additive inverse operation align ends in one pole.

- So, operative ends belong to same fulcrum (mixed singularity) i.e., the interface between active segment (sensory wing) and passive segment (motor wing), here, at south pole.

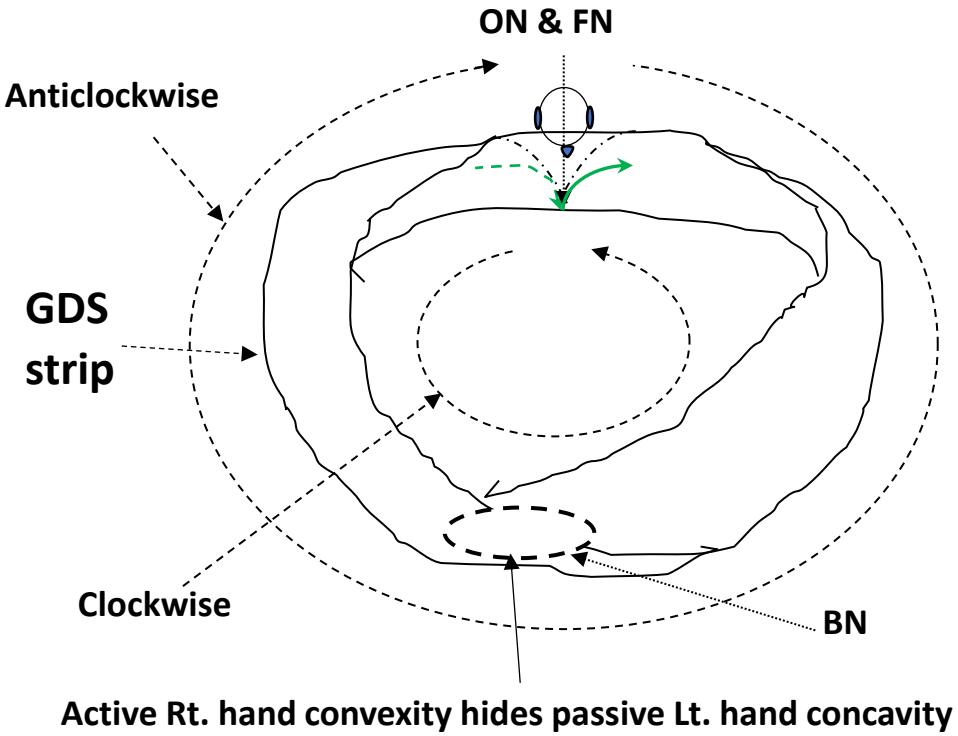
- In this self-organization complimentary interface between active and passive segments is generated symmetrically at north pole that stabilizes (bistability) fulcrum of complimentary system. At polar ends, in reference to its own fulcrum, central or multiplicative operator or orbital twistors and peripheral or additive or orbital untwistors are created. Equatorial sensory BN represents peripheral discrete CNS.



- This self-organization creates four absolute nulls: two in poles (Ontogenic, ON, $+^{Q}$ and Fermionic, FN, $-^{Q}$) and two in equators (Bosonic: sensory and motor).

- Self-organization, in EDS, executes distoproximal untwisting at FN in inversed finite sensory wing and proximodistal twisting at ON in absolute motor wing. In complimentary system null reverses.

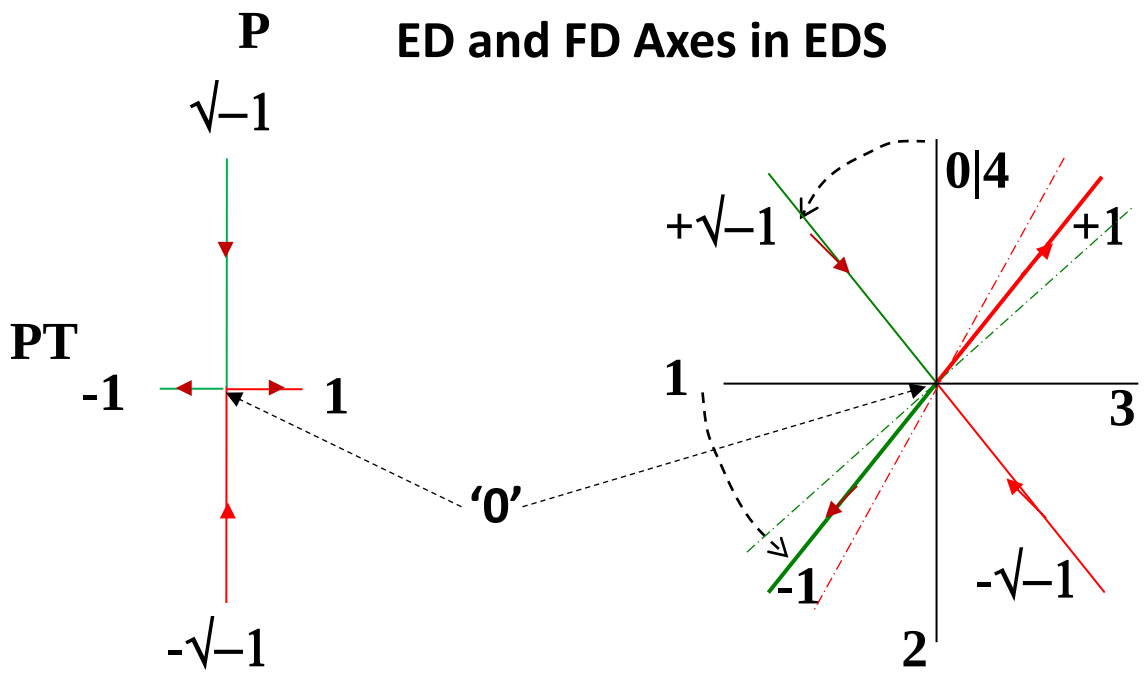
- Odd turn discriminates active end from passive one. Thus Lt. hand active untwist (on Re end, FN, $-^{Q}$) and Rt. hand passive twist (Im end, ON, $+^{Q}$) fabricates EDS (Energy Dynamical System) strip where information orbit clockwise or forward. Structurization is organized only in finite sensory wing. Absolute motor wing is structureless-formless.



- And, active Rt. hand untwist (on Im end, $+^{Q}$) and passive Lt. hand twist (on Re end, $-^{Q}$) fabricates GDS (Gravity Dynamical System) strip where information orbit anticlockwise. But in reality odd GDS strip doesn't exist. Here, Im (Rt. hand) rides on convexity; hides Re.

- But Rt. hand untwist fold back unfolded 4D EDS strip (define space at levity null without) to 2D EDS strip (define time at gravity null within) in absolute churn and fusion on periodic cycles.

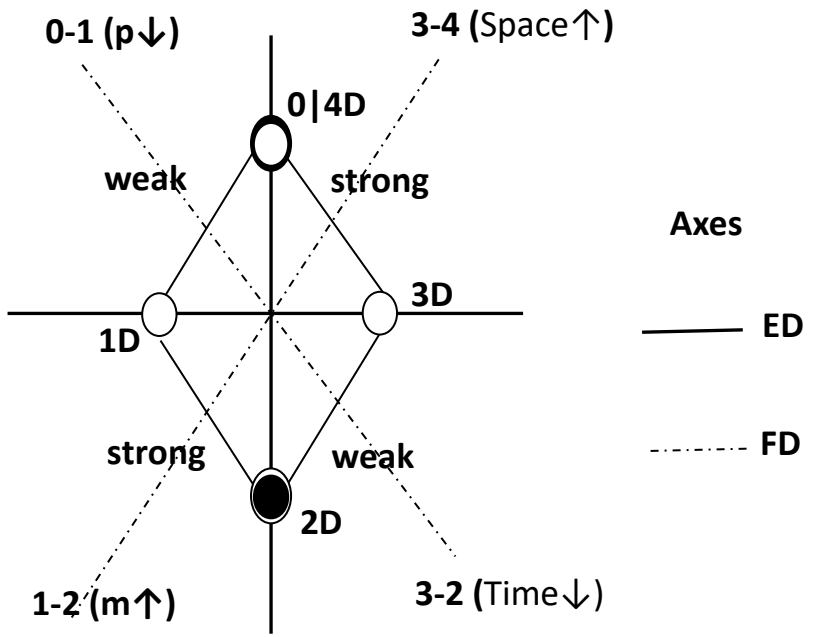
- In odd spin only EDS-strip exists where EDS, primarily belong to convexity where position peaks, runs clockwise (fwd) and GDS has to compromise, primarily belong to concavity where momentum peaks, runs anticlockwise (bwd). GDS fulcrum belong to north pole. Odd spin restricts polar freedom due to incorporation of gravity bosonic space in 3D.



- Elementary operators in ED in the dynamical systems are extremals of the central cruciate structure or saddle solution (Odd ED). Psudoelementary extremals begins and ends at Fractal dimensionality (FD) or diagonal axes. ±1 strong axes represent asymptotes both in ED and FD.

- The EDS (system-1) case is shown in sensory perspective on complementary saddle point (in motor perspective, directions reverses - '0'→'∞'). For GDS (system-2) the signs, direction, and color reverse. Odd ED emerges from even ED where ED accepts FD diagonally (missing central C-symmetry/grey crux in 3D). FD-phase: Wing or system untwistors (√-1|-1) and twistors (-√-1|+1) in EDS transfer information within that system. ED-phase: Orbital untwistor/twistor (+√-1/-1 ↔ +1/-√-1) transfer information between systems (GDS ↔ EDS).

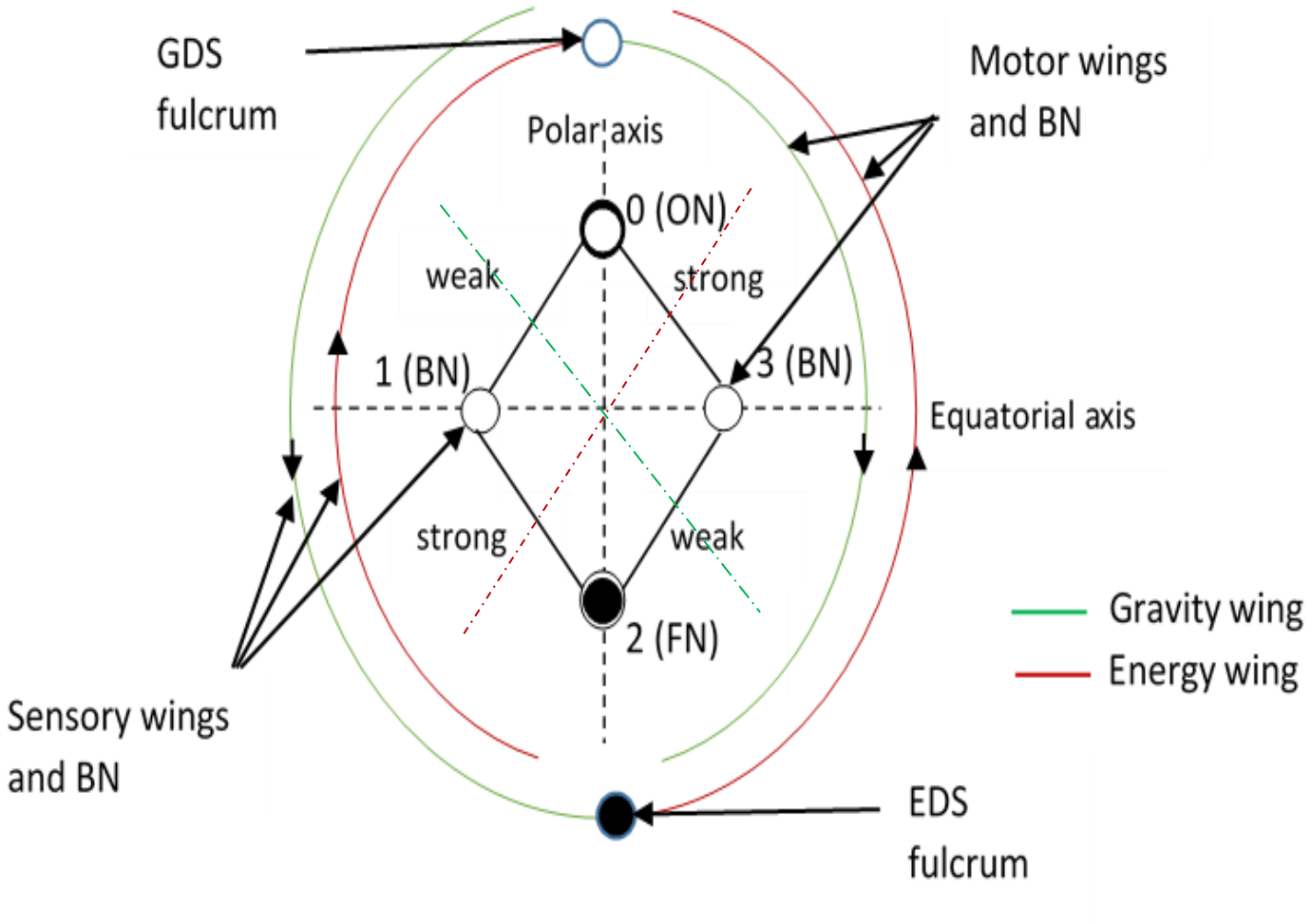
Equator-Orbit Complementation



- CMF satisfy spin-rotation complementation in π-chopping. FD-windlasses, straights between untwistor and twistor, are the self-organizors. With each ½ spin turn (active Lt. untwist) i.e., one step (180^0 rotation) and alignment of ends, elementary dimension increases by one unit.

- So, at 1st step (1D-½ spin) dark matter (graviton, spin-2, strong gravity), dark energy, >c, + abstract fermions (without motor wings) transcend.

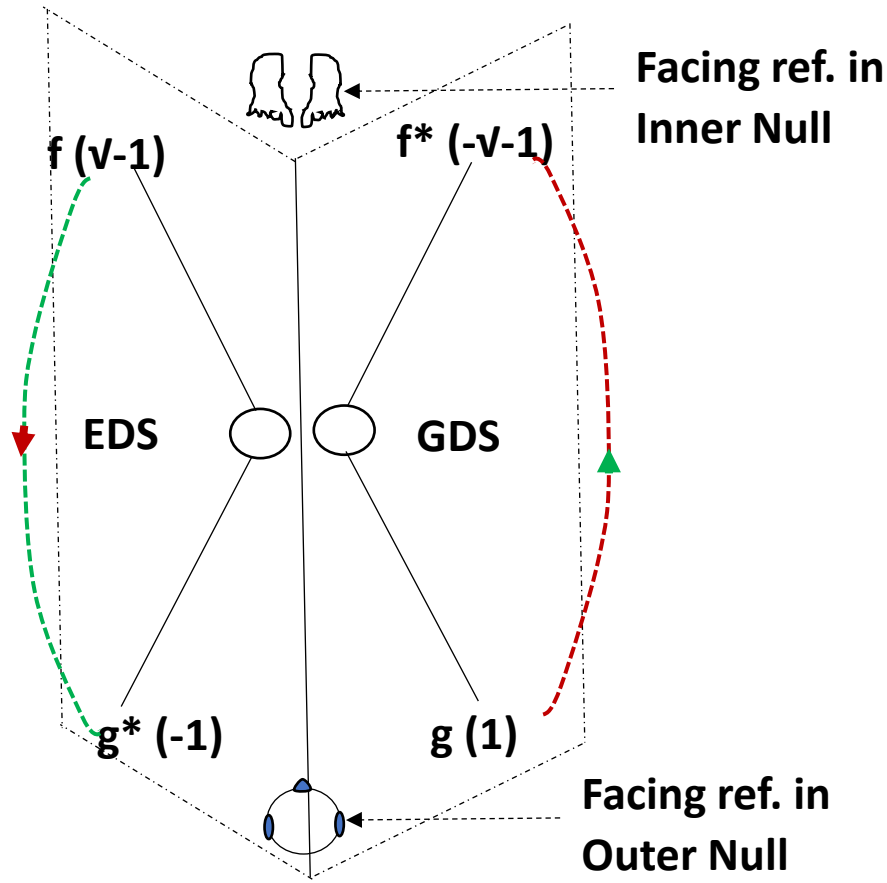
- At 2nd step (2D-1 spin) free gauze bosons are created. 3rd step (3D-3/2 spin) complete oddity ensure excel unstable fermions with incorporation (fermion-boson structurization) of bosonic space: gauze and gravity. At the final move for 4th step (4D-2 spin) equatorially stable fermions culminate on completion of full (720^0) rotation in space-time fabric.



Circle of circumference h (Planck's constant) at poles hide beginning and end problems

- Inverted shorter finite sensory wing, build structure and form under untwist operation in sensory association space only when supported by structureless and formless longer absolute motor wing at its fulcrum.

- Gravity wing (green; -1|+√-1) belong to Lt. hand operation (BN on '0') and energy wing (red; -√-1|+1) belong to Rt. hand operation (BN on '∞'). In sensory wing of EDS, **m** envelops **p** against the current. In motor wing situation is reverse.



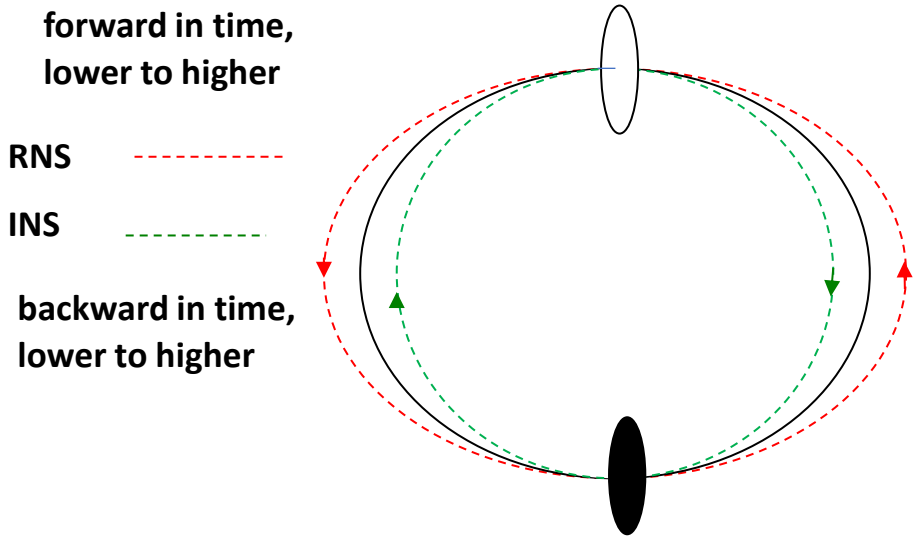
Multiplicative FD-phase but BNs are phase linked in ED-relation in highest equatorial spin.

- Disposition of operators under dual mode in ED (open book) are shown here within sensory wings in EDS and GDS. Unimodal FD is the case of closed book, oddity out of evenness.

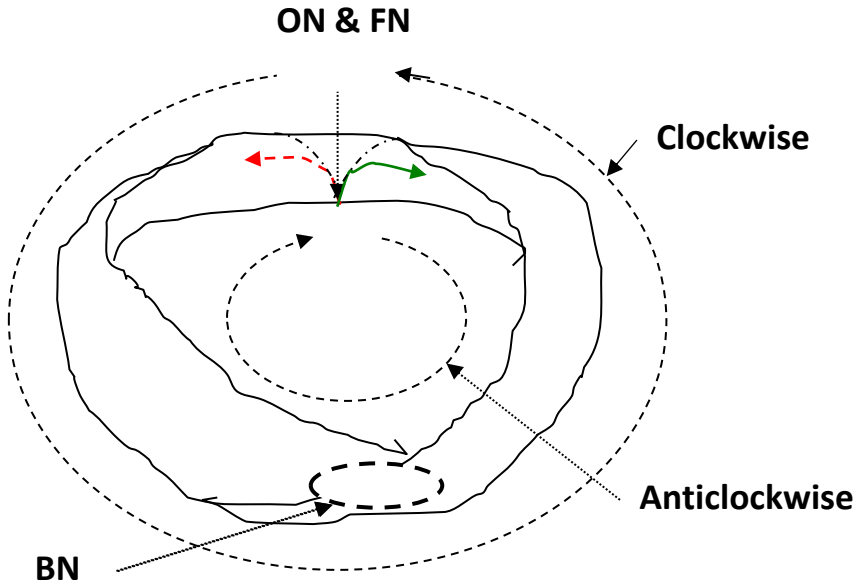
- ED mode is bimodal (Even) because here absolute rotations run same in dual perspective. Here, rotations are in same direction when witnesses are in crossed-face-lie from fulcrum (FD or ED).

- FD mode is unimodal (odd) because here finite rotations (**p**|**m**) run dual in same perspective in face-face-lie from fulcrums. Peripheral witness bwd→fwd (BNs→BNm) along equatorial axis is elementarily odd also where Re open exclusive individual cosmos hiding rest others in Im.

- Evolution of rational (RNS) and irrational (INS) number systems in fast 1st order 1D/>c (c.f. mixed and 2nd order slow 3D /=c) out of Real-Imaginary number systems happens by π-chopping (180^0) under joint group untwist operation in odd D.

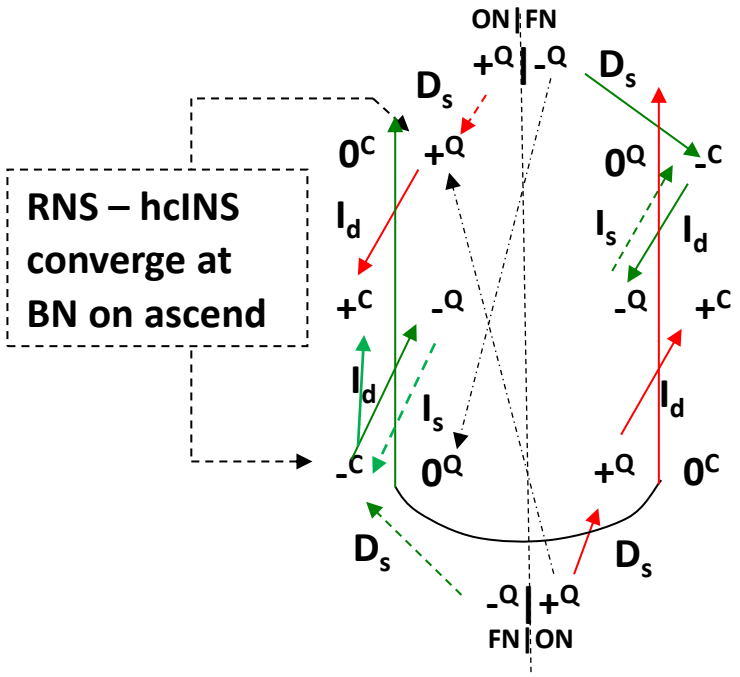


$\hbar$ (h/2π) complementation of RNS and INS bridges any gap, even in singularities.



1D Model

- Subsystem trajectories in 1D tend to change surface at BN but PT-symmetry reverse them readily. So RNS always run along convexity clockwise fwd while INS along concavity anticlockwise bwd. This oddity is 1st step exclusion. 3D holds 2nd step exclusion.



In 3D: Classico-quantum worlds

I ≡ Increase; D ≡ Decrease; s ≡ solidarity; d ≡ diffusion of position (red) or momenta (green) in EDS.

Number system in π-chopping in 3D

INS^C / Re^C >| RNS^Q / Im^Q

RNS spread discreteness INS link continuity

- $+^Q$ and $-^Q$ points of mixed singularity transcend to inversed sensory polar antennae ($+^Q$ and $-^C$) on D_s (polar lag↓) with equatorial split of gravity by π-chopping/group operation.

- INS has three components : Finite or head (hc), infinite or tail (tc). Back-Back/B-B hcINS,metric decider of singularity, on D_s unites with tcINS ($-^Q$) at polar region at FN end to form $-^C$, irrational (INS), in sort of hybrid PT-symmetry.

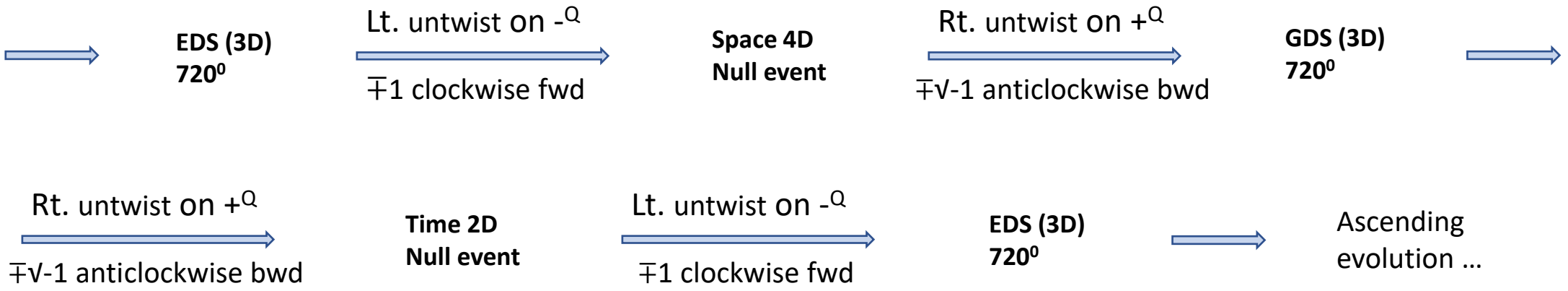
Polar RNS and hcINS ascend and converge at equator in simultaneity to conform finite primes and antiprimes on the background of current Infinite Prime ($+^C$, 2^{nd} order Re) or local space. All tcINSs collectively determine Infinite Antiprime or local time ($-^Q$, 2^{nd} order Im). 3rd component (INS), grey one, has penultimate role in Classico-quantum measurement ($-^Q0+^C$). Here, nontrivial '0' is discrete Euclidean space (multiplicative one) in BNm of 2^{nd} order.

- π-chopping transforms Real (Re)/Imaginary (Im) number system to rational/Irrational ones with the periodic initiation of distoproximal differential start as sensory untwist → cumulative ascend in alternate opposite way (+|-) of position and momentum orbitally. Despite the ascend (**p**/**m**) micro-hierarchy scale along fractal sensory against current.

- Ascend advances in motor wing as proximodistal integral twist, diffeomorphic to untwistor sensory one i.e., total 720^0 micro to Macro self-organization hierarchically. Albeit their absolute goal is Fractal Dimensional (FD) mixed singularity, their current periodic reach is its closest proximity possible where they regain original form: Re/Im.

- These orbital journey belong to FD-phase. Between complementary toggle of succeeding FD-phases (EDS ↔ GDS), ED-phase pulsate. Here two journeys converge simultaneously in exclusive individual ascend of equatorial journey from sensory Bosonic Null (BNs) locality toward motor Bosonic Null (BNm) locality. In orbital Möbius topology **m** holds classical attribute (primarily in GDS) and **p** holds quantum one (primarily in EDS). These polar attributes reverse equatorially where P dominates AP.

- EDS strip unfolds out of motor by untwist on $-^{Q}$ pivot from 0D to 4D, levity manifold. GDS compromise within it where extremals belong to 2D, gravity manifold. Dimension folds by untwist on $+^{Q}$ pivot. So 3D function as odd centrality between even dimensions of fulcrums in duality: 4D without and 2D within. In absolute churn and fusion they solve present space and time alternatively in FD-phase and simultaneously in ED-phase.

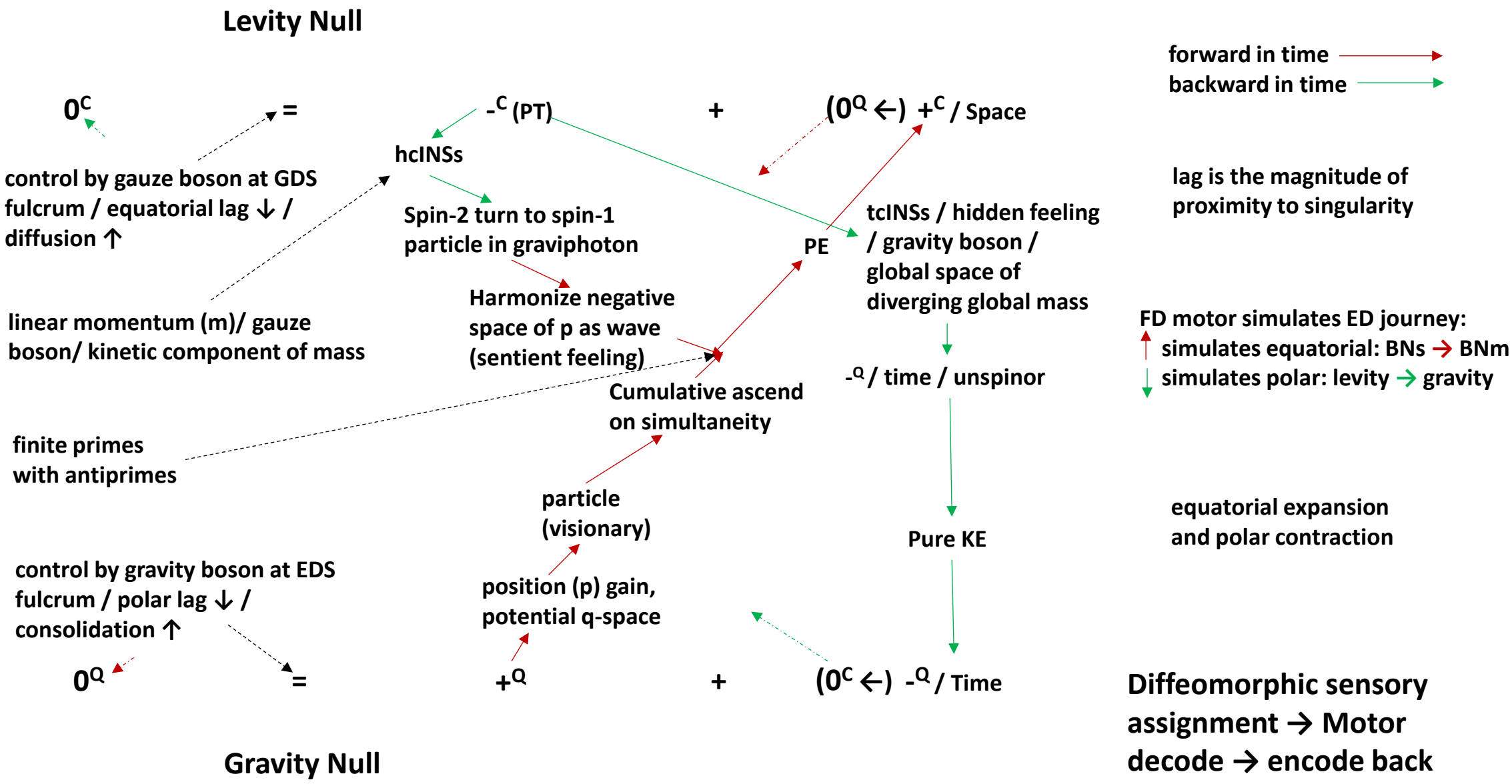


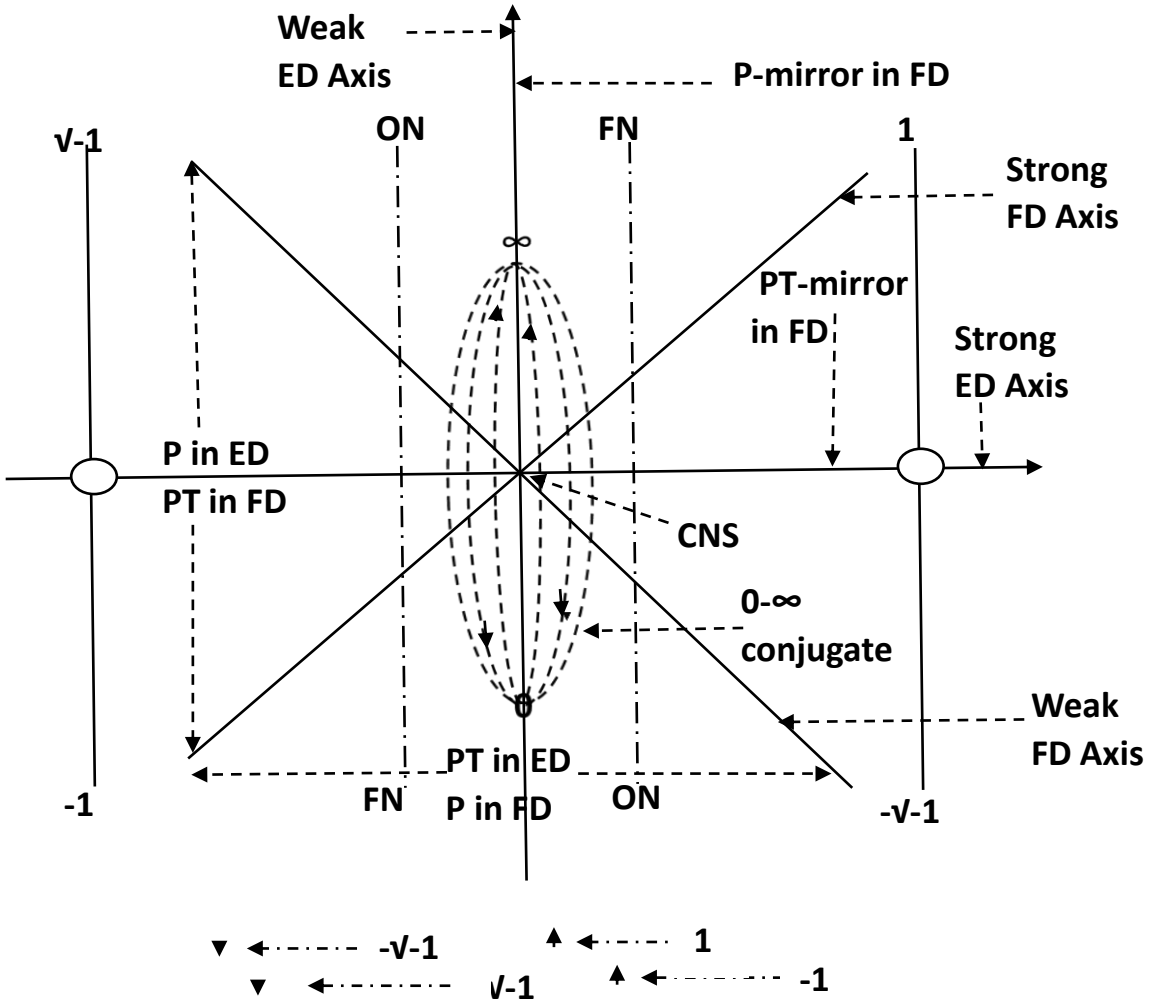
- Strong (PT) dominates: 1. Self-organization of EDS strip on strong Re pivot. 2. π-chopping intersects RNS|INS by strong ED- and hcINS|tcINS by strong FD-axes. 3. Macro/Classical: strong Re ($+^{C}$) on strong ED-axis and strong INS ($-^{C}$) on strong FD-axis. 4. Critical bifurcation: Through weak ED-quadrant|strong ED-quadrant remains intact. 5. Composite particles: Electron at strong ED-axis and Quark (dia↓, process speed↑, fatigue↑) at sleep FD-axis.

In Null order ‘0-∞ conjugate’, diffuse Re|Im create infinite polar freedom vertically. Null Field ensure absolute equatorial freedom of 2nd order Re|Im horizontally. In 3D finite processing of information, **p**|**m** with consolidated sensory beginning are suitable replacements of Re|Im.

Null order Re|Im are transformed into absolutely consolidated p point ($+^{Q}$) in ON|m point ($-^{Q}$) in FN respectively (Mixed Singularity). Entrapped gravity bosonic space, restricts polar freedom by reducing polar lag periodically. (Note: Gravity abhors equatorial churn; plays in between in rotational space). Alternate **p**|**m** vectors start closer to poles are consolidated mixed orders: RNS ($+^{Q}$)|INS ($-^{C}$). They orbitally ascend on diffusion; connect null derivatives of the beginning and end (pseudovectors); thus, advance closer towards polar points periodically.

Incorporated gauze bosonic space (hcINS) restricts equatorial freedom where position classical ($+^{C}$) or P↑ dominates over AP↑ ($-^{Q}$). hcINS is the decider (free Gödel - incompleteness) behind $^{C}|^{Q}$ attributes. In 1D RNS/convexity is apart from INS/concavity by nondual ± media (hcINS/PT), can never mix and match. But in trinary 3D they can, form mixed and 2nd order sub-elements. hcINS↑ merge with $+^{Q}$s↑ reduce equatorial lag expands the quadrant only periodically (P↑).


Levity Null
forward in time
backward in time
0^C
=
$-^C$ (PT)
+
$(0^Q \leftarrow)$ $+^C$ / Space
hcINSs
control by gauze boson at GDS fulcrum / equatorial lag ↓ / diffusion ↑
lag is the magnitude of proximity to singularity
Spin-2 turn to spin-1 particle in graviphoton
PE
tcINSs / hidden feeling / gravity boson / global space of diverging global mass
linear momentum (m)/ gauze boson/ kinetic component of mass
Harmonize negative space of p as wave (sentient feeling)
FD motor simulates ED journey:
simulates equatorial: BNs → BNm
simulates polar: levity → gravity
$-^Q$ / time / unspinor
Cumulative ascend on simultaneity
finite primes with antiprimes
particle (visionary)
equatorial expansion and polar contraction
Pure KE
control by gravity boson at EDS fulcrum / polar lag ↓ / consolidation ↑
position (p) gain, potential q-space
0^Q
=
$+^Q$
+
$(0^C \leftarrow)$ $-^Q$ / Time
Diffeomorphic sensory assignment → Motor decode → encode back
Gravity Null

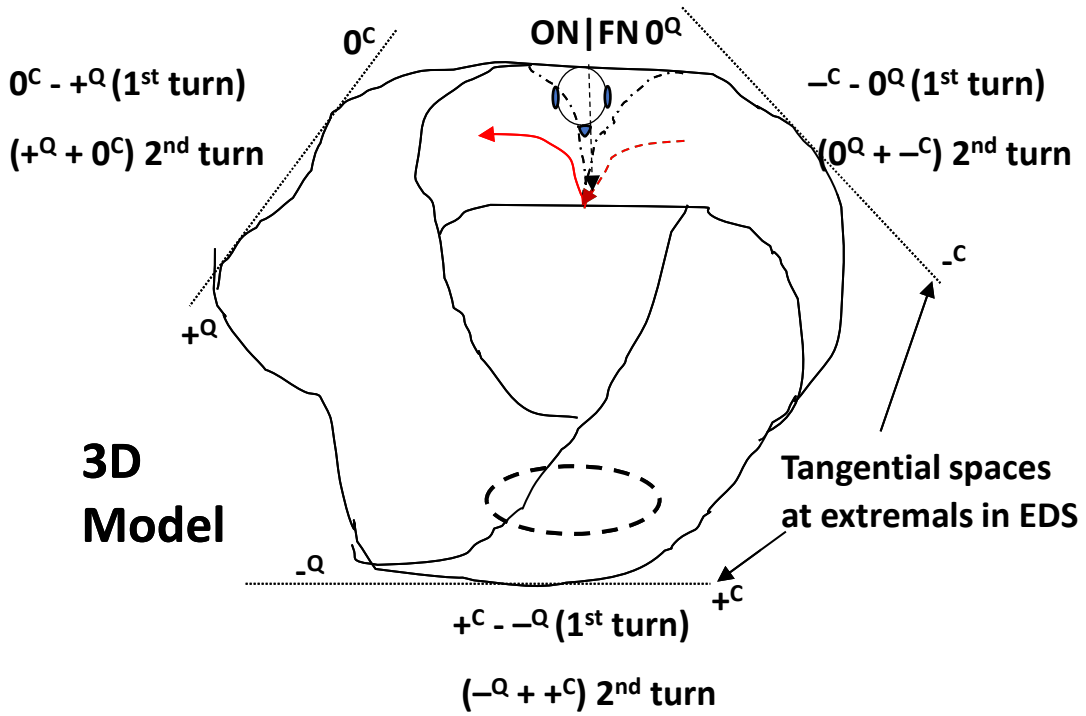


Both systems share the common frame except the fulcrum and operators' sign/directions

- Axes: ED (mirror in FD) and FD (only ED accepts FD under Möbius complex functional rules) and Quadrants: ED and FD in both ED and FD perspective (rule). Particles: Elementary or hypothetical and pseudo-elementary or sentient.

- Topologically close sensory extremals: FN / slow Cl-q end ($-^{C}|0^{Q}$) / Heavy positions (curled **p**Ds) beyond strong axis / BigCrunch Exflation … & … ON / fast q-Cl end ($+^{Q}|0^{C}$) / momentum Heavy (curled **m**Ds) beyond weak axis / BigBang Inflation.

- In 3-4/3-2D, p|m ends in pseudovector ($0^{Q}|0^{C}$) polar form on scalar|pseudoscalar equatorial forms ($+^{C}|-^{Q}$) before π-chop.



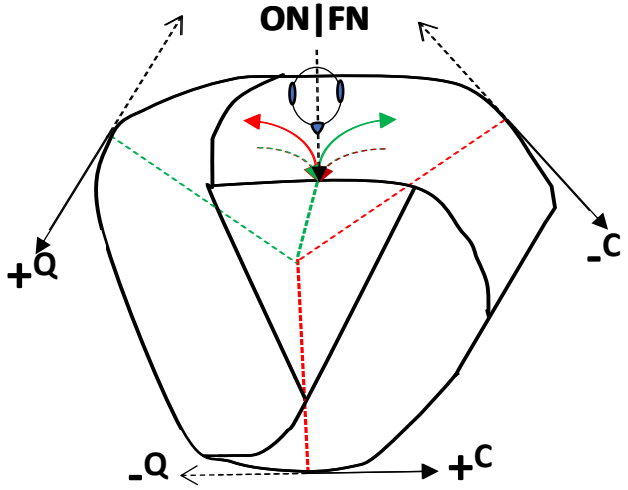
- Basic element of 3D M-strip are trinary codon (input-media-output). The two sub-elements as two hands spread towards surfaces add classical (convexity or exposed) or quantum (concavity or hidden) attributes. In case of energy wing, inputs are quantum and outputs are classical. Reverse happens in case of gravity wing. Here, contrary to 1D-case, rational are hidden and irrationals are exposed. PT/hcINS (spontaneous symmetry break – 2 to 1) span between shoulders.

- Bases are tensors and media are twistor/untwistor or spinor/unspinor; e.g., '+' in tensor designate : 'position,' 'visionary,' 'objective' whereas '+' in media designate diverging $\mathbf{p}\uparrow$ or entropy (clockwise or fwd). '-' in tensor indicate : 'momentum,' 'feeling,' 'subjective' where as '-' in media indicate converging $\mathbf{m}\uparrow$ or negentropy (anticlockwise or bwd).

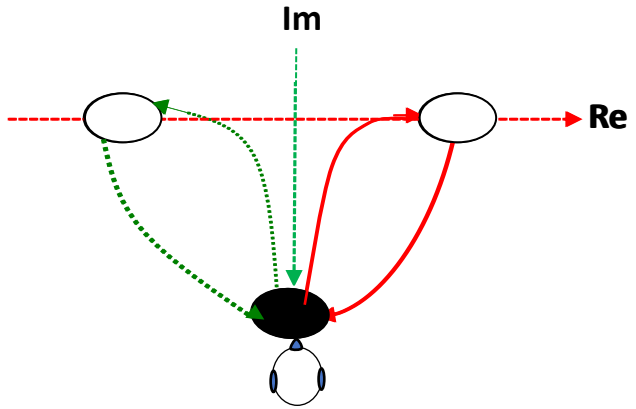
Numbers are placed in Möbius topology on the principle of aesthetic fitment of Möbius symbols ($+^{Q}$, $-^{C}$, $+^{C}$, $-^{Q}$, 0^{C}, 0^{Q}, 0 and ∞) along self-organizing rule of manifold. The theme may simulate computer language 'C' where specific group of functions are organized as specific object. They assign exclusive stochastic discreteness help in conformal filling in reference to background continuity. Here, primary symbol is Null (0), centrality in ED-singularity of $0\text{-}\infty$ conjugate. Polar duality stabilise FD-singularities with Null derivatives ($0^{C}/+^{Q}$, $0^{Q}/-^{C}$).

In symbolizing media, middle one of trinary codon is orbital untwistor/twistor: '+' denote forward dynamism of position, '-' backward one of momentum; '0' absolutely neutralize dynamism in spinor/unspinor space on their balancing height at equator in nontrivial '0'.

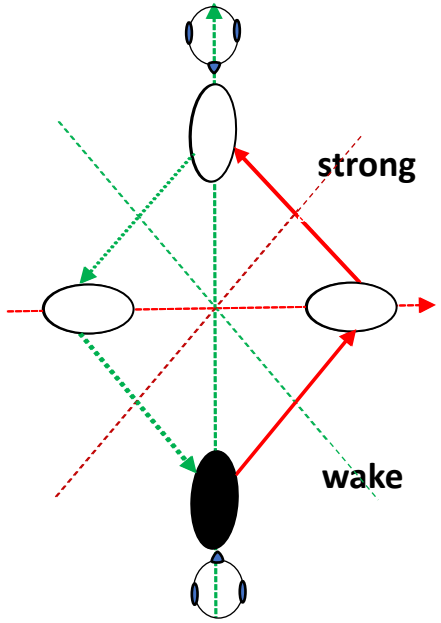
Peripheral metrics of manifold are also expressed symbolically: convexity as superscript ^{C} (classical/exposed) and concavity as ^{Q} (quantum/hidden) attributes. In equator they are 2^{nd} order subelement: $+^{C}$ (white) as local space and $-^{Q}$ (black) as local time. Obviously, no superscript means central neutral curvature of trivial '0' ('state of Indifference'). It accompany penultimate conformal grey ones (neither white nor black symbol) that link all stochastic discrete unit basis vectors restore Deterministic continuity topologically along the background.



a. Real Strip (2D)



b. Twined EDS (unstable fermion in 3D)



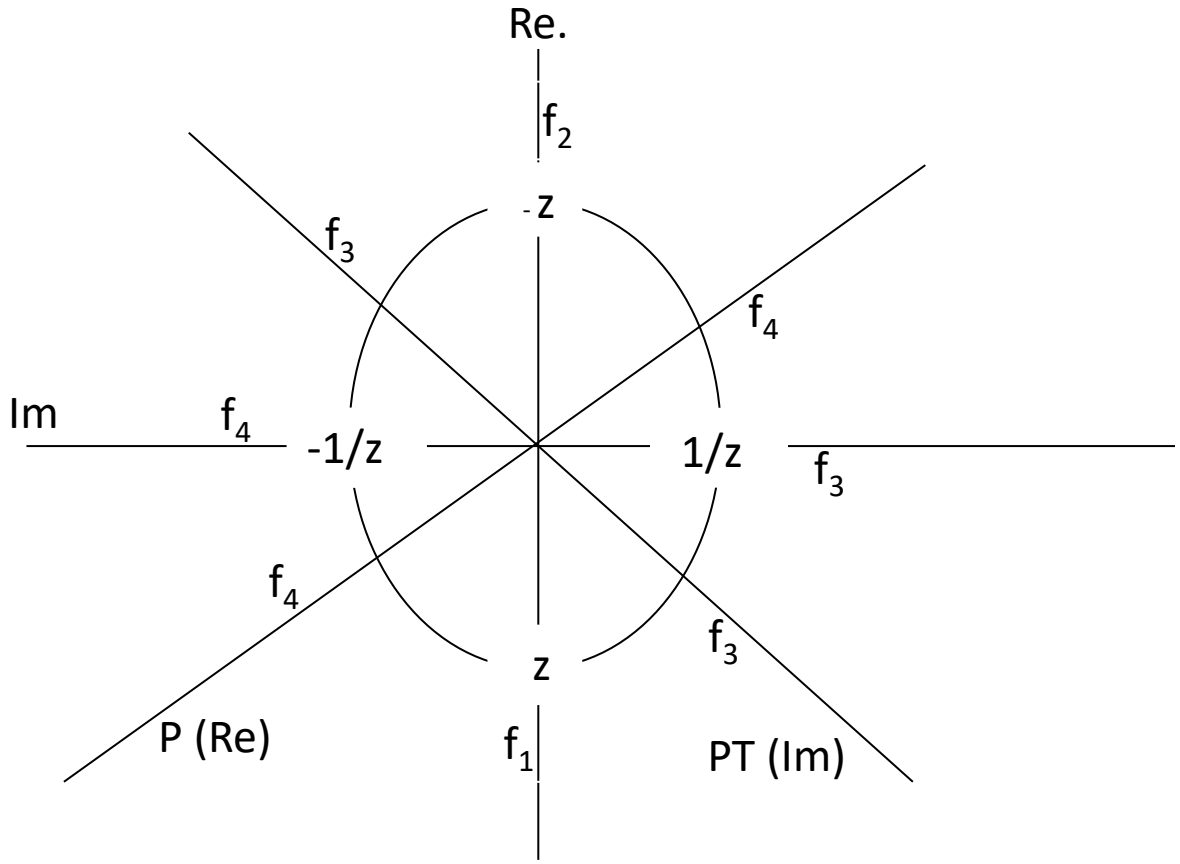
c. Untwined EDS (4D)

Dispositions open up in Complex Möbius Field

(shown in self-with-hands references)

- a. i) Basic natural form (2D → p/m) ii) Support basis vectors of Geometric Algebra.
- b. i) FD-phases (3D - polar warp) ii) Homologous to Lorenz attractor or electronic field.
- c. i) Complex Möbius Functions ii) Equivalency with quaternion (both sensory) spaces.

Möibus group of complex functions of uncompromised GDS in GDS strip (polar execution: Re / f_1-f_2)

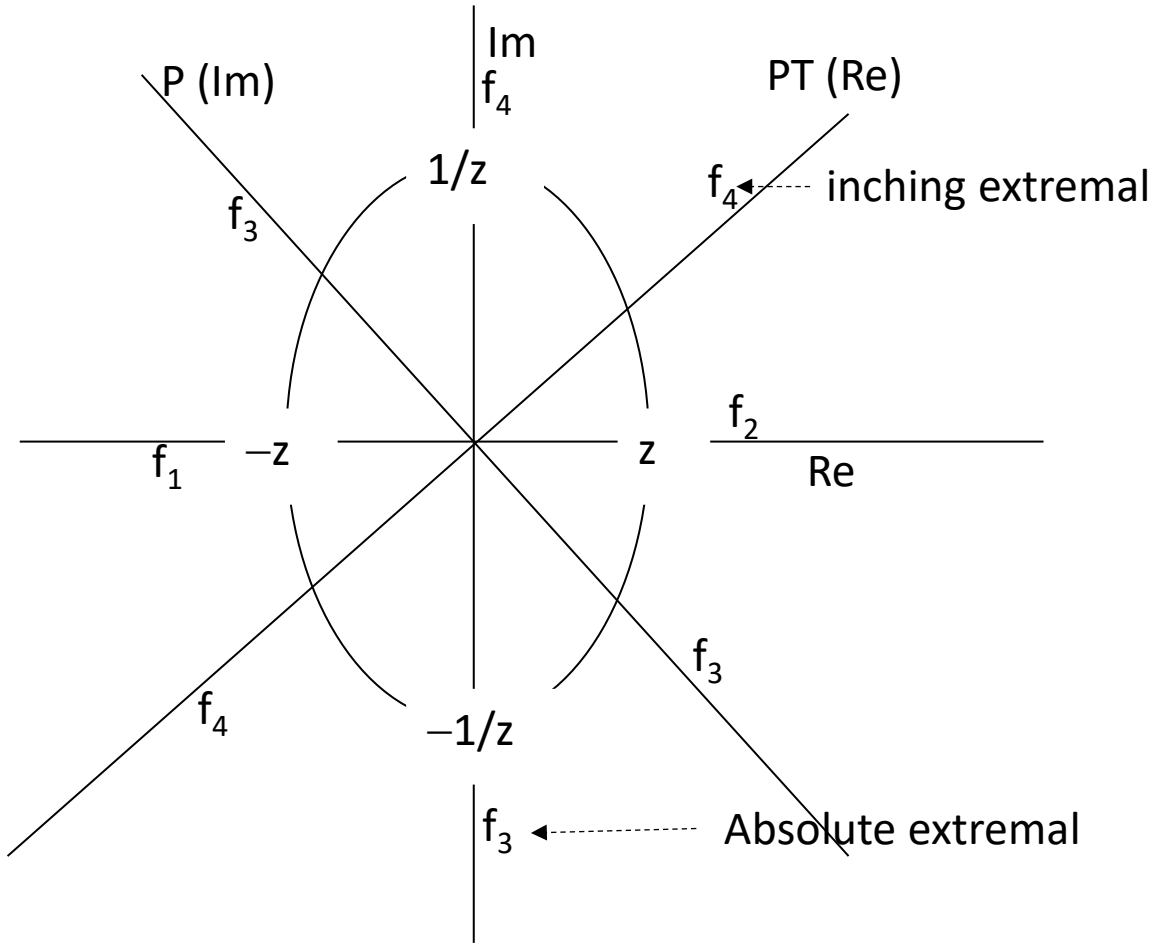


0	f_1	f_2	f_3	f_4
f_1	f_1	f_2	f_3	f_4
f_2	f_2	f_1	f_4	f_3
f_3	f_3	f_4	f_1	f_2
f_4	f_4	f_3	f_2	f_1

Table-1. Composition table in GDS. 0 indicates group operation: addition or multiplication.

$f_1(z) = z$, $f_2(z) = -z$, $f_3(z) = 1/z$, $f_4(z) = -1/z$ … $f_1(z) = z$ is the identity element.

Möbius group of complex functions of EDS in EDS strip.

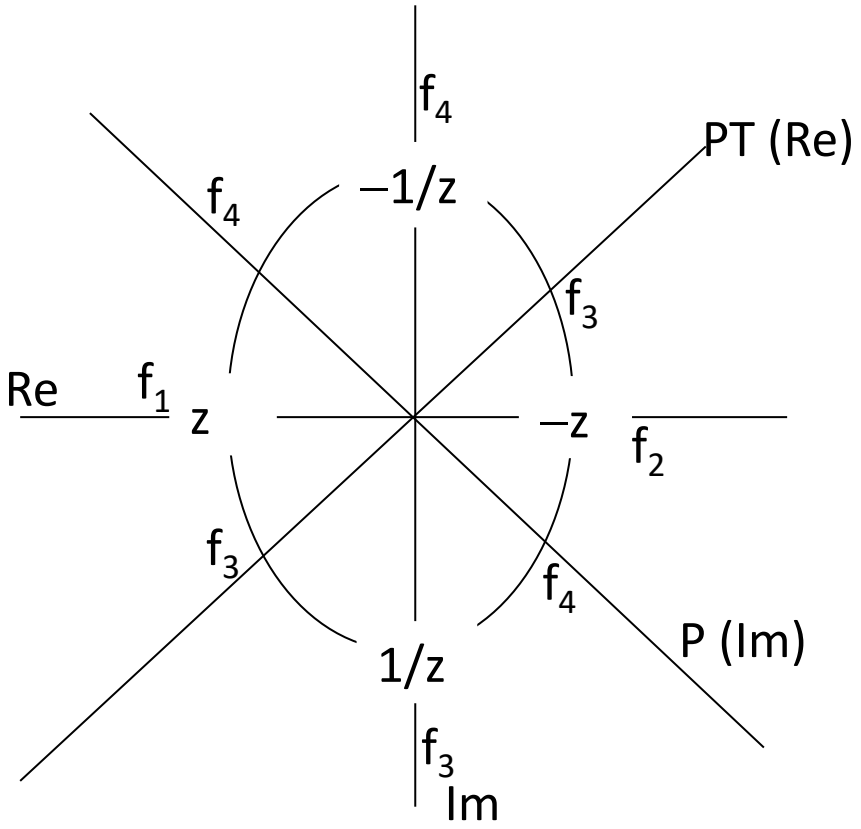


0	f_1	f_2	f_3	f_4
f_1	f_2	f_1	f_4	f_3
f_2	f_1	f_2	f_3	f_4
f_3	f_4	f_3	f_2	f_1
f_4	f_3	f_4	f_1	f_2

Table-2. Composition table in EDS. $f_2(z) = z$ is the identity element.

$f_1(z) = -z$, $f_2(z) = z$, $f_3(z) = -1/z$, $f_4(z) = 1/z$ ... ED accepts FD diagonally.

Möbius group of complex functions compromised GDS in EDS strip



$f_1(z) = z, \quad f_2(z) = -z, \quad f_3(z) = 1/z, \quad f_4(z) = -1/z$

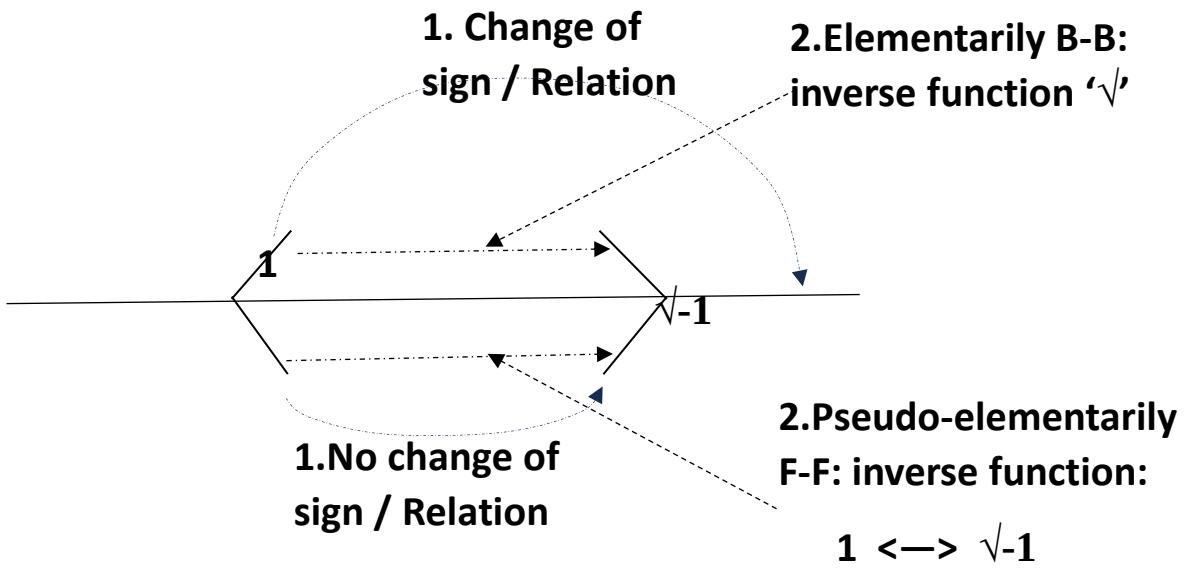
- 540^0 or 3D anticlockwise (bimodal) rotation of cruciate ED axes of uncompromised GDS (keeping FD axes, on $+^Q$ pivot, unchanged conventionally) frame compromised GDS that fully compliment (c.f. 1D) within EDS strip where PT-axis represent Re one. So, 3D is the ideal dimension for self-organizing bio-evolute (ED-asymptote) where duality is the outer modalities of central unitarity.

- Pseudoelementary (FD) rule: In GDS inverse Möbius function f_3 or $1/z$ designate transformation of Re (±1) to Im (± √-1) or vice versa where signs aren't changed i.e., commuting or F-F (change of sign occurs in case of f_4 or $-1/z$).

- But in case of normalization of unitary function, z represent 1 (Re unit) and its inversion (1/z) define the transformation of 1 to + √-1 (Im unit) or vice versa where there is change of sign as well as imposition of transformation function i.e., 'square root over function'. So, here above relation is anticommuting or B-B under Elementary (ED) rule where order of operation is strictly '-', '√' on '±1' or ±√-1; it cannot be reversed.

- So, when one goes to normalize such basic units of elements, it also becomes self-evident that, here, the complex inverse function in CMF is simply a 'square root-over function.'

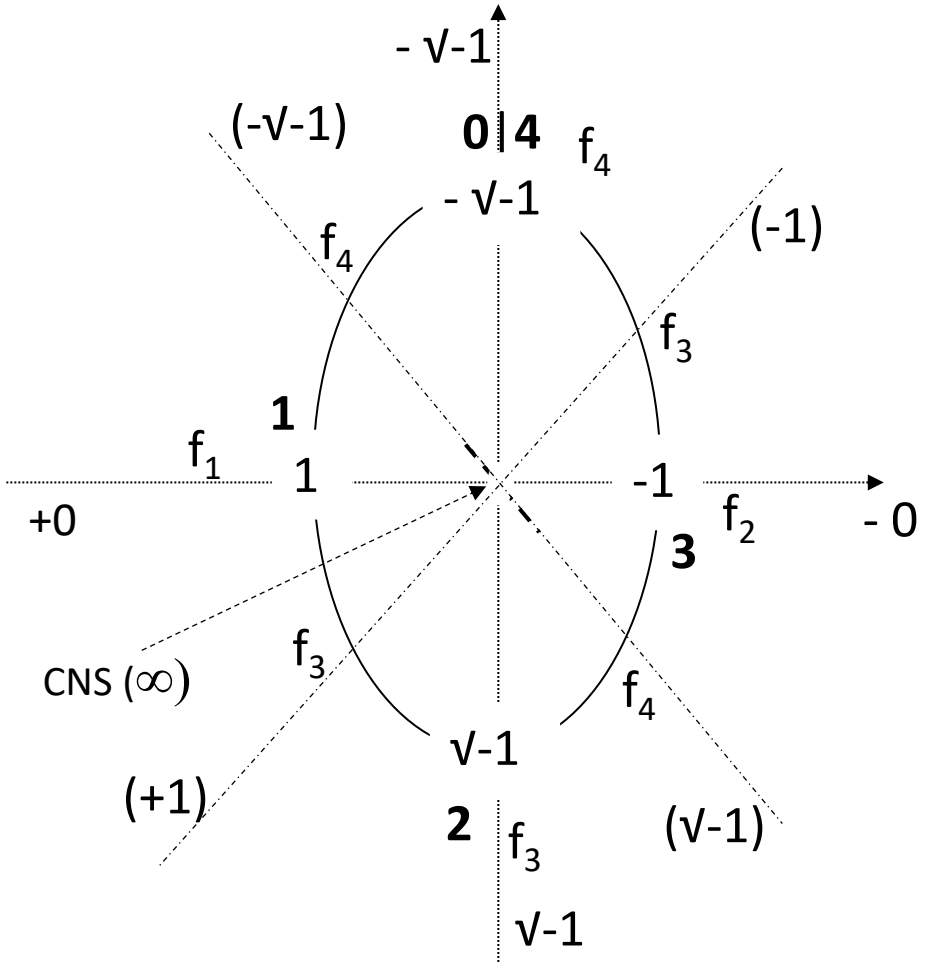
- Thus, elementarily or unitarily in GDS f_3 inverts the function with change of sign i.e., sleep or strong or PT symmetry (B-B) whereas f_4 inverts only the function i.e., wake or weak or P symmetry (Face-Face, F-F). In contrast, in case of EDS f_3 is weak symmetry and f_4 is strong one. √1 = ±1 (PT) label ±1 axes as strong one in both the systems.



Definition of F-F and B-B relation between 1 and √-1 in CMF under Elementary and Pseudo-elementary perspective

- Functionally F-F relation is additive and B-B is multiplicative. These relate more distinctively in perspectives (particles): elementary (ED) and pseudoelmentary (FD). Here, they belong to opposite group is clearly evident. What appears additive in FD- turns multiplicative in ED-. Note: FD program handle two phases: FD - orbital (vectors – **p**|**m**) and ED – equatorial (scalars – p|m)

- Hence, these relations behave in CMF as complex collage. It is conventional that relation between operators in sensory wing should be considered in FD perspective whereas in motor wing they should be assigned in ED or unitary perspective. Nevertheless, ED relation is fundamentally independent in comparison to FD one.



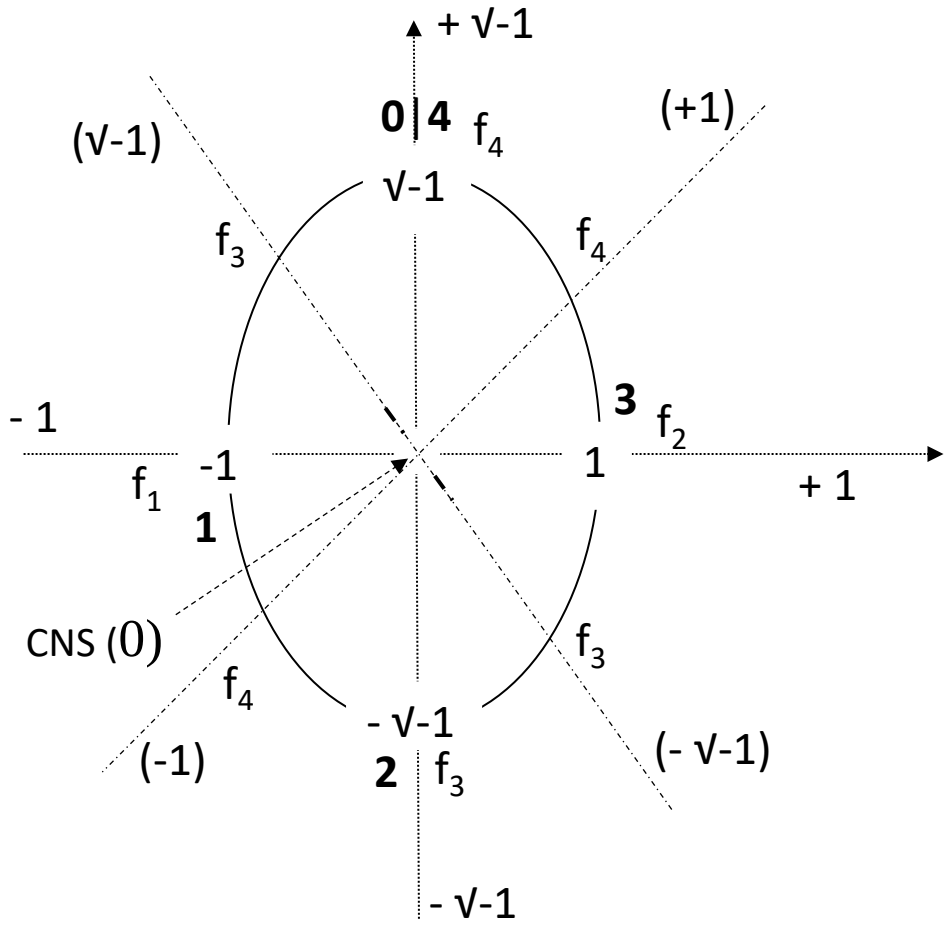
Compromised GDS supported on odd ED

(at CNS '∞' faces front & '0' hides back)

- The GDS fulcrum is on 0D|4D-null or levity null ($0|\infty$ or $\mathrm{ON|FN}$) and EDS fulcrum is on 2D|2D null or gravity null ($\infty|0$ or FN|ON). They are FD or mixed singularities on 0-curvature.

- GDS (INS differential input $-^{C}$ or f_3 in 2D → ascend under untwist, micronisation fractally to 0^{C} at 0D and periodic ascending cycle (720^{0}) continue anticlockwise towards highest diffused momentum or unknown past (Im) along both wings: sensory and next, motor i.e., integral (reverse micronisation) Im output f_4 or $-^{Q}$ at 2D).

- This negentropic path $\mathbf{m}\uparrow$ runs as ascending linear momentum (mv) that may be considered as partial derivative of kinetic energy ($\frac{1}{2}\mathrm{mv}^2$).



EDS supported on odd ED.
(at CNS '0' faces front & '∞' hides back)

- Complimentarily, EDS, RNS differential input $+^{Q}$ or f_3 in 0D → ascend under untwist, micronisation fractally to 0^{Q} at 2D → periodic ascending cycle continue in motor wing (total 720^{0}) clockwise towards highest diffused position or unknown future (Re) i.e., integral output (reverse micronisation) Re output f_4 or $+^{C}$ at 4D.

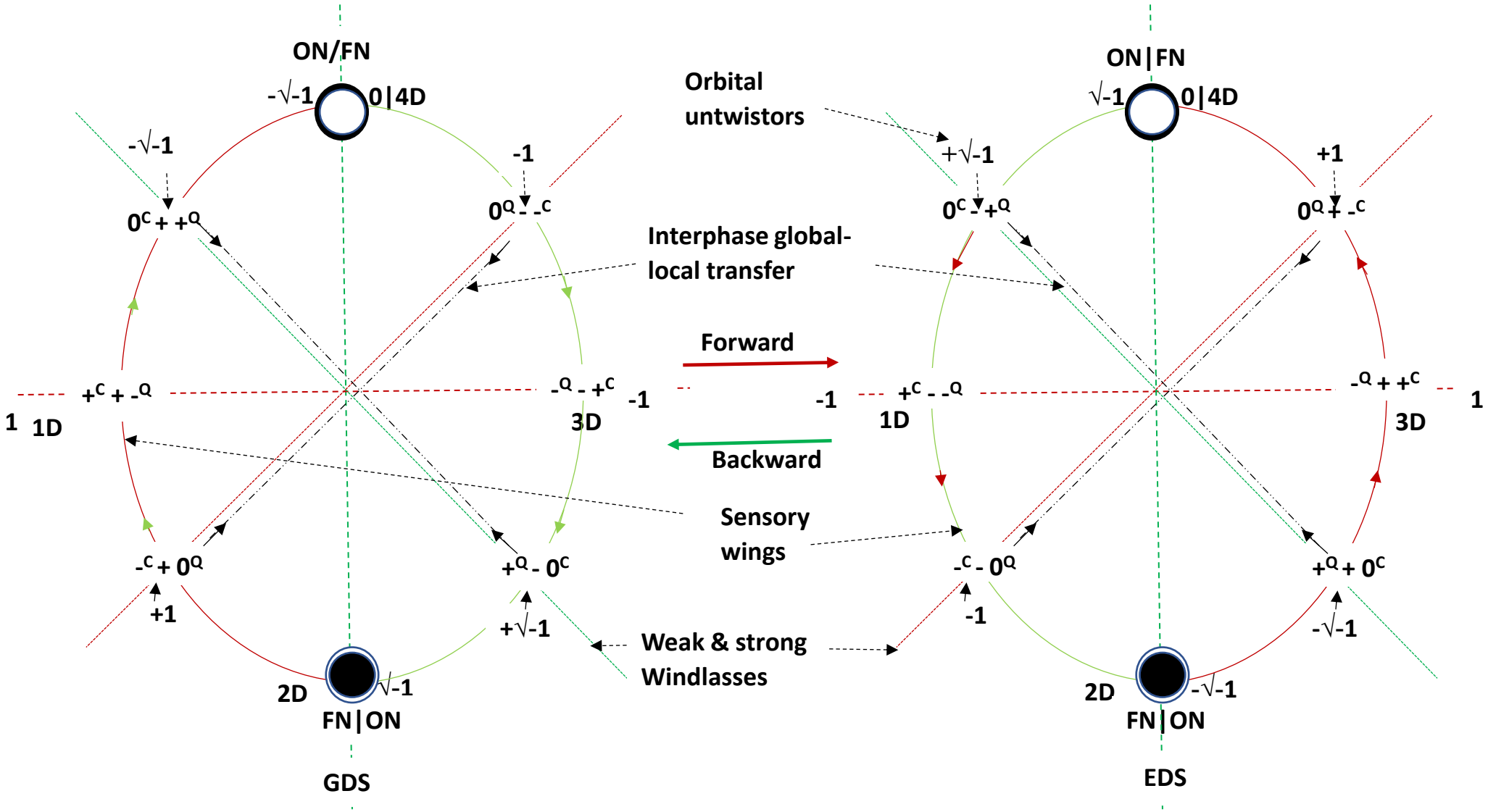
- Its entropic $\mathbf{p}$ ↑ (position vector) follows real drag of tachyon.

- In group untwisting, the motor FN hides behind sensory ON in levity (North) pole and motor ON hides behind sensory FN in gravity (South) pole.

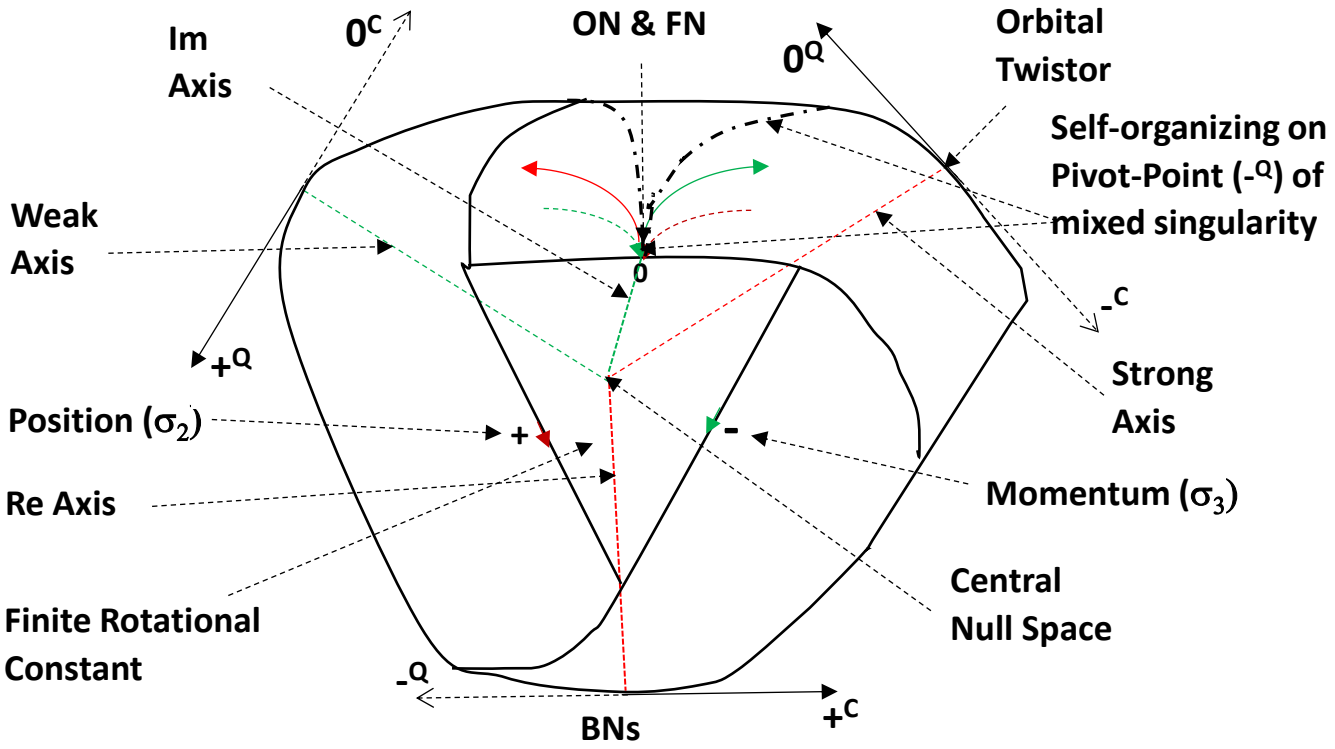
- ED axes (fixed in both systems: i) Polar, bimodal, B-B, even subconsciousness inclusive all valid probabilities ever possible (deterministic), Im axis between $f_{4,}$ m-point & $f_{3,}$ p-point as translational space define K and ii) Equatorial, unimodal, F-F, odd consciousness, exclusive truncated probabilities (stochastic), Re axis between f_1 & f_2 ($0 \leftrightarrow \infty$) as (un-)spinor space, define V. ED axes support mixed FD axes (interchanging: $f_4 \leftrightarrow f_3$ in GDS $\leftrightarrow$ EDS) diagonally. Hence, derived Re and Im FD axes out of ED axes are basically complex in nature. They hold both components of null derivatives: diffuse ($f_4/0^C/0^Q$ or ∞^Q) and consolidated ($f_3/+^Q/-^C$).

- Oscillating Möbius functions are orbital vectors pendulate both ways, rotationally invariant (neutralising complementarily), clockwise fwd and anticlockwise bwd. Null derivatives are the beginning and end in both cases: **p**: $+^Q$, f_3, 0D → $+^C$, f_4, to ($-^C$) 4D, PE↑ - diverging spiral outside → '∞' ... & … **m**: $-^C$, f_3, 2D → $-^Q$, f_4, to ($+^Q$) 2D, KE↑ - converging spiral inside towards 'heavy momentum → 0' in rotational space where both inch towards mixed singularities.

- In CMF complex inverse functions, f_3/f_4, are root over functions - (±)'√' that normalise Re (equatorial/horizontal) and Im (polar/vertical) unitarily in swirling topology of Möbius strip.



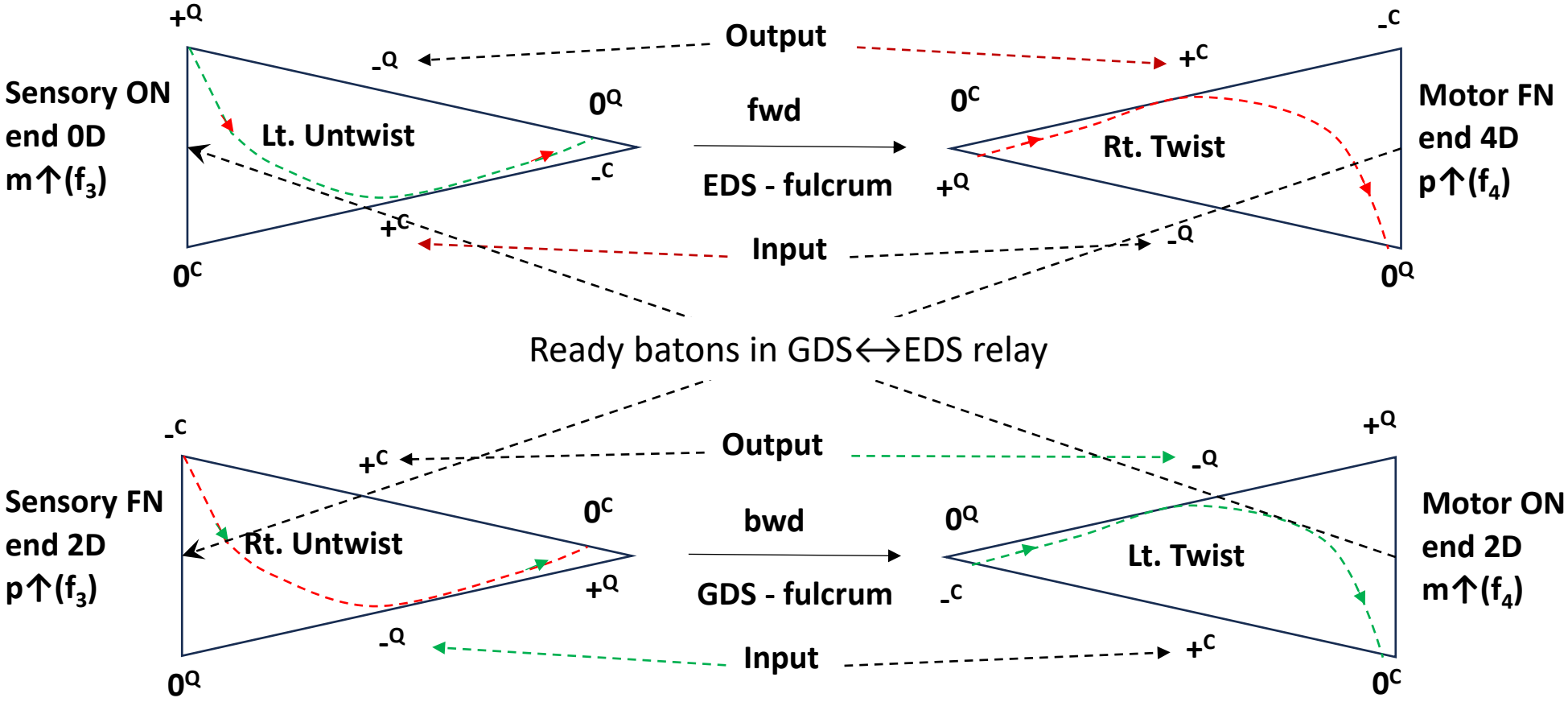
Global to local information transfer orbitally (vector: p|m)
FD-phase between cosmic pulsations



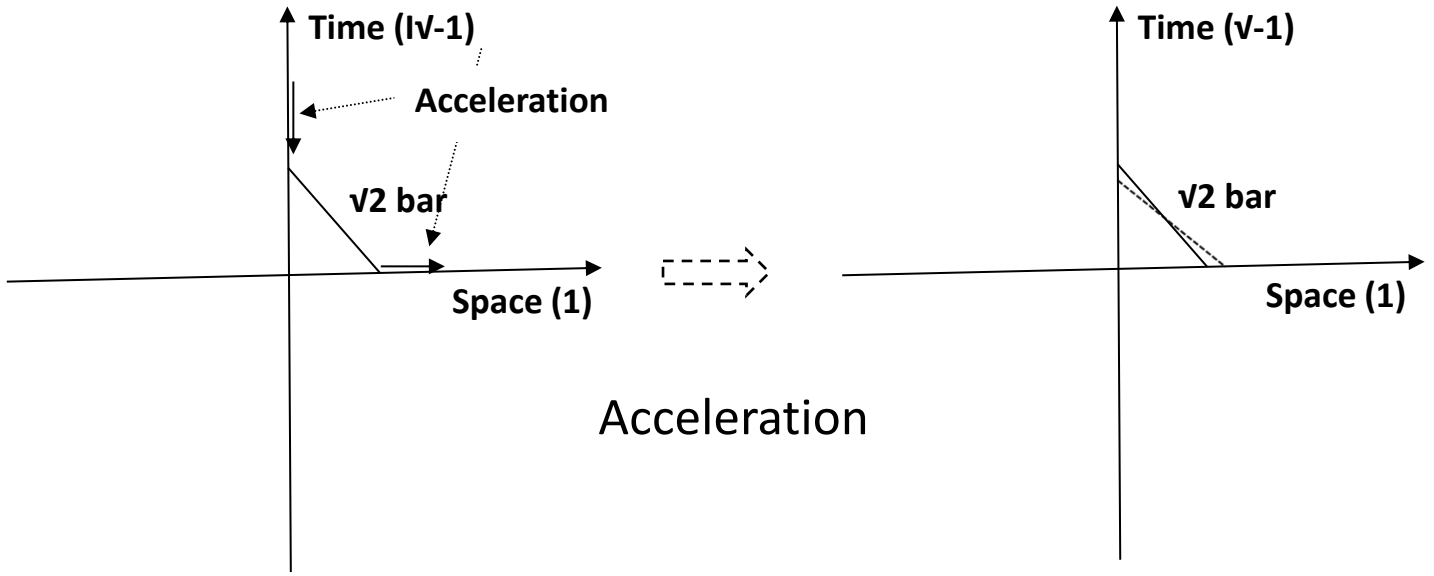
Self-organized EDS strip in Real disposition

- 3D basic elements, 'codons', having three sub-elements. Complex Möbius functions continually get transformed conserving symmetry. They gather, process, and release information depending upon the media, middle sub-element (±): the twistor/untwistor (orbitally) or spinor/unspinor (equatorially). Continually codon disposes itself orthogonal to the plane of paper.

- Medium (±) always remains within the paper thickness. Polar media fail to reach polar mixed singularity but equatorial media may reach nontrivial '0' at BNm in Classico-quantum measurement. Other two sub-elements are metric tensors ($^{C}/^{Q}$) belong to: external side/classical (convexity or exposed extremals) and internal side/quantum (concavity or hidden extremals) of tangential axes symbol as superscripts on bases, ±.

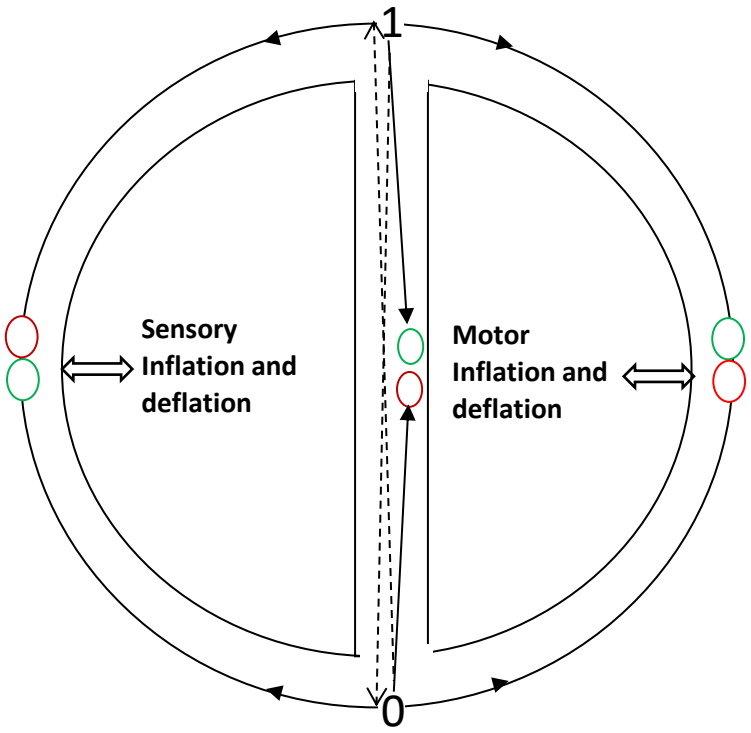


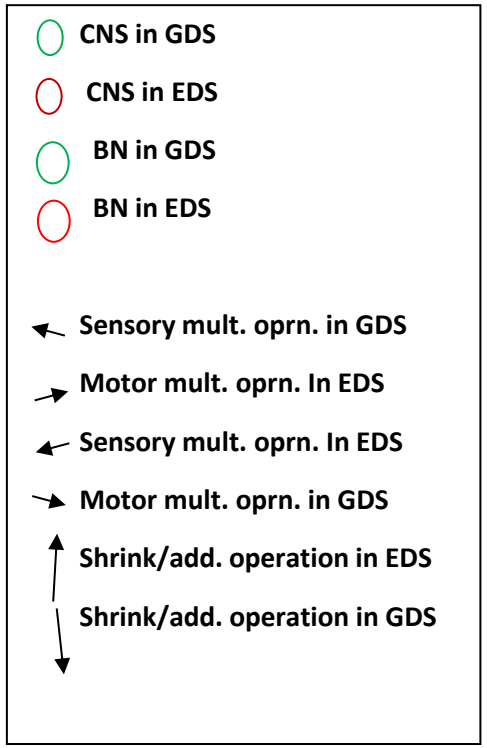
Processing of Cl-q inputs and outputs of distoproxymal untwistor and proximodistal twistor along Möbius winding topology pass baton in GDS ↔ EDS relay



- Both infinities of Re and Im axes are always normalized in space-time fabric with unities of the same magnitude on reference frame of subsystem. So, these two are essentially orthonormal functions.

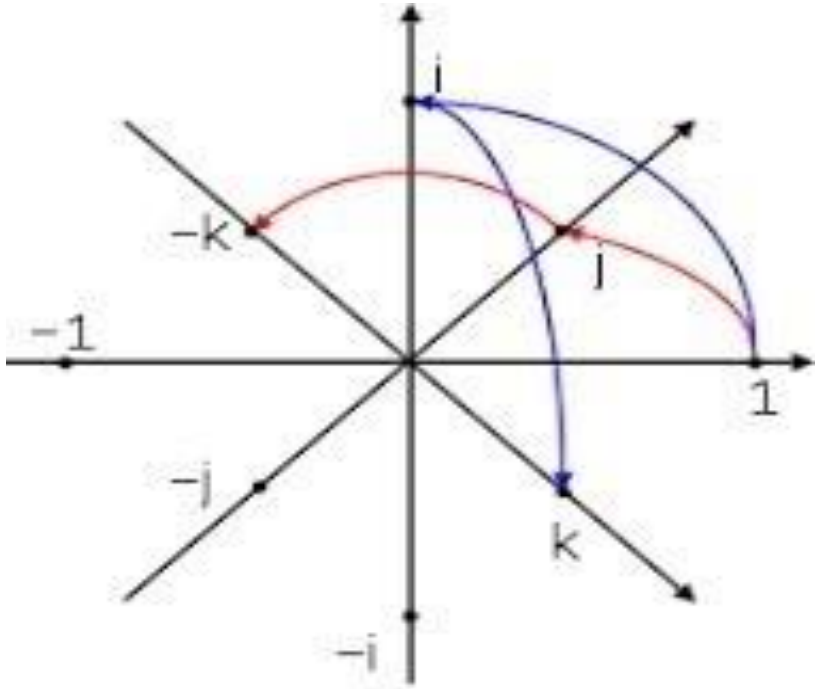
- Acceleration invokes decreased slant (and deceleration brings about increased slant in reference to Im axis) of √2 bar. Normalisation of this changed status in reference frame of subsystem with unities of same magnitude involves length contraction and time dilation in case of acceleration. This shows that the unitary relationship between space and time under acceleration also conserves ‘square root over’ normalization. This validates absolute constancy of speed of light in discrete oddity condition of equatorial sensory and diffeomorphic motor quadrant.

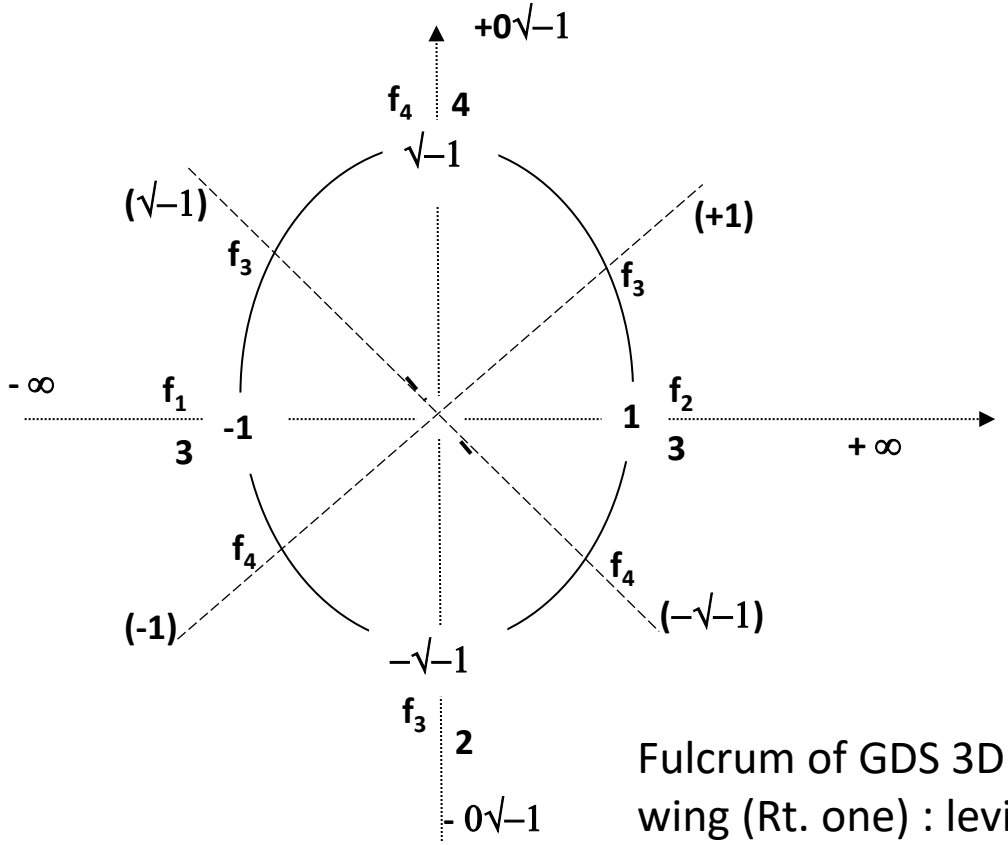




- Inertial game of stretching and shrinking of polar axis or CNS happens with multiplication and addition respectively along evolutionary journey in EDS and GDS.
- Here identity elements (IEs) are conserved as multiplication on addition in negative feedback loop.

- … EDS (f_4) mult. clockwise rotation (IE-1) with polar stretch down → clockwise slow down in GDS (f_3) add. (IE-1) with polar shrink down → feedback → GDS (f_4) mult. anticlockwise rotation (IE-0) with polar stretch up → anticlockwise slow down in EDS (f_3) add. (IE-0) with polar shrink up → feedback. IEs in EDS ($\mathbf{p}\uparrow$) and in GDS ($\mathbf{m}\uparrow$) function in bimodal ED are as: $\mathbf{p} * 1 = \mathbf{p}$; $\mathbf{m} + 1 = \mathbf{m}$; and $\mathbf{m} * 0 = \mathbf{m}$; $\mathbf{p} + 0 = \mathbf{p}$.





Fulcrum of GDS 3D sensory wing (Rt. one) : levity to gravity null → BNs: $\mathbf{f_1}$ to $\mathbf{f_2}$

ij=k, ji=-k, ij=-ji, ik=-j, jk=i and $\mathbf{i}^2 = \mathbf{j}^2 = \mathbf{k}^2 = \mathbf{ijk} = -1$.

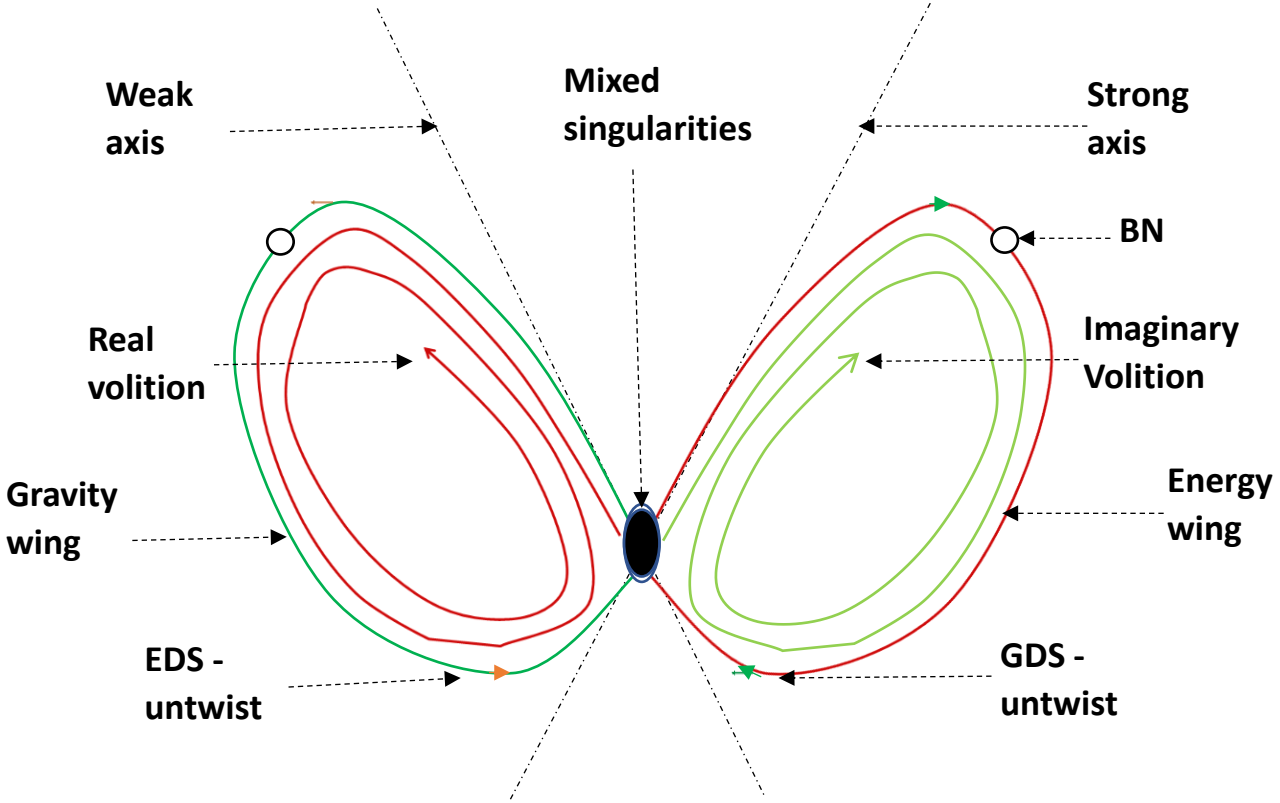
(valid in CMF in clockwise multiplication; in anticlockwise one sign is to be changed on the final product)

Equivalency between quaternion space and complex Möbius space
(Both 3D sensory-wing fulcrums are on Gravity Null/2D)

- Present evolutionary journey and volitional journey are encoded as further add-on-memory-over the previous cumulative inversions of windlasses (±**j** and ±**k**) as hysteresis inching the polar gap at mixed singularities. It is noteworthy that quaternion format is universal i.e., refractory to multiplication and addition operations.

- Sensory wing enforces finite containment ($0<n<1$) and never allow the functions to reach motor absoluteness ($0\leq n\leq\infty$ or $0\leq n\leq 1$ in unitary context).

- 0-1 ($\mathbf{p}$) and 1-2 ($\mathbf{m}$) fractal domains favour dimensional convergence crunch to 3D (p-adic space) as bio-evolute supports self-similarity where in incompressibility condition scalar field replaces vector field (Re>Im equatorially → polar displacement of Im at CNS under absolute churn) . The spinors are decoded elementarily as finite primes (memory element) and antiprimes (inter-relational space of Leibnitz) in 3-4 fractal dimension of ascending infinite Prime (on the unspinor background of infinite Antiprime in 3-2 FD).



CMF is homologous to classical Lorenz attractor

- FD has two phases: FD and ED. FD-phase is evolutionary journey (alternative EDS-untwist and GDS-untwist) under subcritical stimulation (Superficial Awareness) with intervening tiny ED-phase. In complementary orbital **p|m** journey Re and Im can be discriminated but can't be separated.

- Volitional journey or freewill, either Real (Rt. twist) or imaginary (Lt. twist) along gravity wing or energy wing respectively from the pole (opposite to the case of untwist) runs under critical stimulation until the titanic stimulation gets exhausted. Here Re and Im can be discriminated as well as separated.

- GDS → EDS, evolutionary journey toggles in two steps: Im axis inversion before and Re axis inversion after the ED-phase → introduces **p** ($+^{Q}$) > **m** ($-^{C}$) fluxed fwd (unimodal) by π-chopping along opposite untwistor surfaces of sensory wing → h-bar ($\hbar$) skip i.e., one walk over the other. Hence, in EDS sensory wing under untwist operation **p** walk over **m** fwd**.** In case of GDS, direction of flux reverses bwd. Nevertheless, both advancements involve increased diffuseness either ways towards mixed singularity. Due to indivisible and incompressible nature, PE (both potential + kinetic component fwd) / Cl-entropy / $+^{C}$ favour ascend towards '∞' and due to divisible and compressible nature, q-negentropy or pure KE / $-^{Q}$ favour ascend bwd towards '0'/ON. Journey, both ways, in ED-phase are simultaneous.

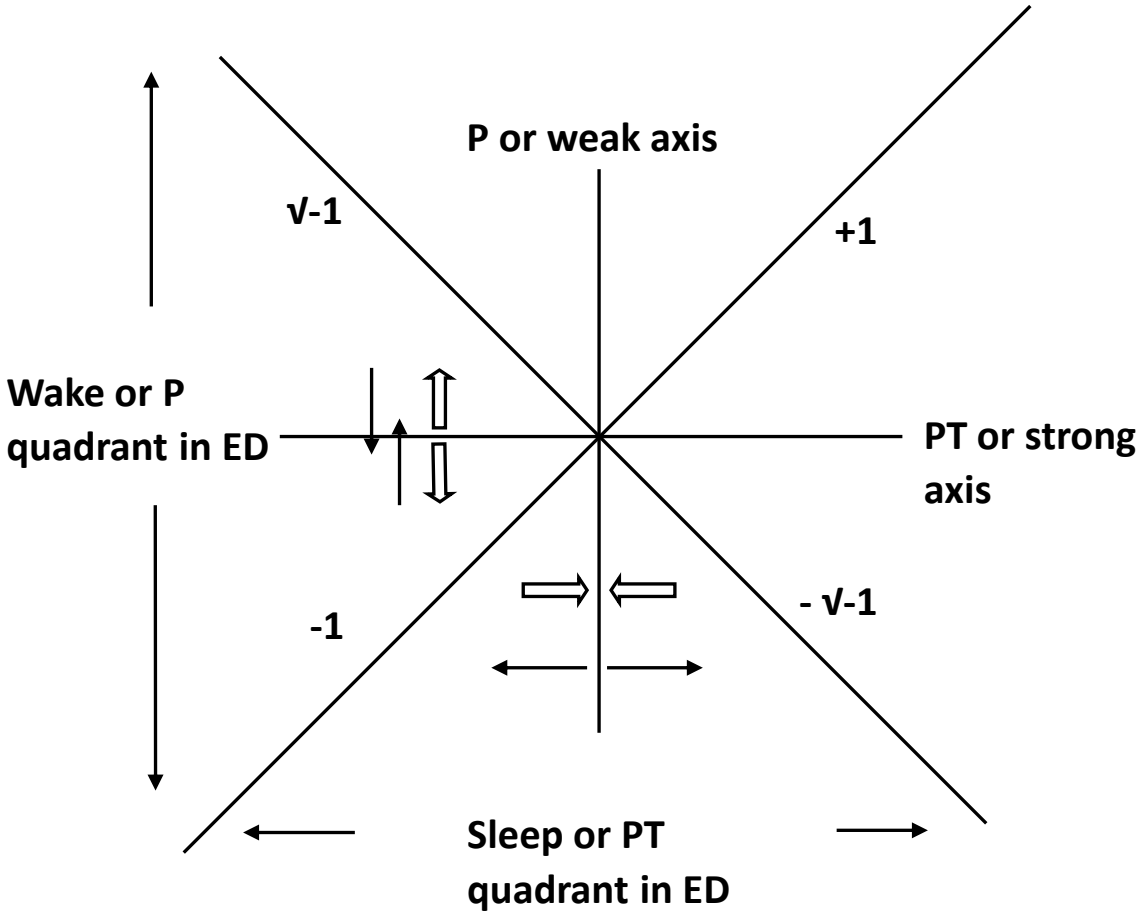
- In vortex model → ascend **m**↑ (bottom to top) or **p**↓ (top to bottom) get skipped along 360^{0} journey of EDS or GDS respectively in the formation of Poincare map along distoproximal untwist operation in sensory wings where multiplicative inverse dominates over additive inverse operation (subjectivism) → Lorenz attractor where N dimensional finiteness capture N+1 dimensional current infinite trajectory (P|AP) as series of discrete points along phase diagram. But in Nature top/bottom of vortex reverse under motor execution (objectivism).

- In CMF geometrically P and PT symmetries represent axes : P → weak and Im and PT → strong and Re in both ED and FD in both systems. But in group activity P represent additive and PT multiplicative only in ED in both systems.

- In FD f_3 and f_4 symmetries designate physical execution: f_3 → denotes shrinking or addition or consolidation in both FD systems (Im and P in EDS and Re and PT in GDS) and f_4 → implies stretching or multiplication or diffusion in both systems (Im and P in GDS and Re and PT in EDS). In ED f_3 | f_4 denote p|m points of mixed singularity.

- Exact events are secretly fenced by FD-windlasses (ED Determinism satisfy all valid probabilities) within '0-symmetry'. This back-back entanglement under even D later may get settled in face-face odd D as incorporated BNs in space-time conformation.

- Individual change under critical volition generally is of insignificant importance in universal context because it is the journey where almost rest other subsystems are in subcritical evolutionary journey.



face-face wake (ED weak) or P-symmetry in equatorial quadrant

face-face wake (FD weak) or P-symmetry in polar quadrant

back-back sleep (ED strong) or PT-symmetry in polar quadrant

back-back sleep (FD strong) or PT-symmetry in equatorial quadrant

ED relation is more fundamental in complex collage specially in sleep|wake phases

Re axis inversion begins and Im axis inversion ends ED-phase (EDS → GDS). Order changes in reverse case.

Some cognitive states in combinatorial symmetries of CMF:

- Classico-quantum (Cl-q) measurement: FD wake (√-1…1) in sensory equatorial (eq) quadrant and ED sleep (-√-1…-1) in motor eq quadrant in ED-phase with CNS universally.

- Cl-q mapping (0 < ±): Partial FD wake (√-1…1) fixed in sensory eq quadrant and ED sleep (-√-1…-1) in motor one in FD-phase of EDS exclusively (q-Cl map unfixed in GDS).

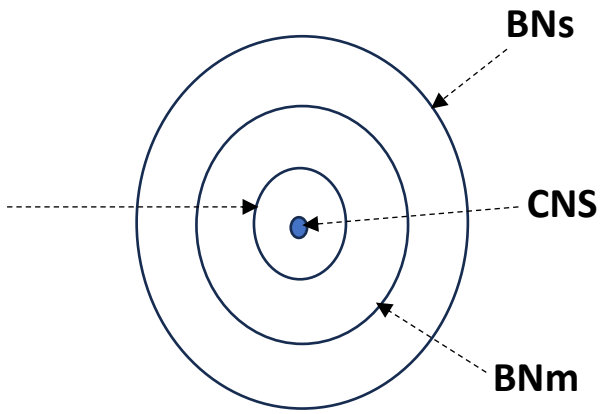
- Superficial awareness (0 = ±): ED wake (±√-1... ∓1) in sensory eq quadrant and FD wake (-1...-√-1) in alternate polar quadrants in FD-phases of alternate systems.

- NREM sleep: FD sleep (±√-1... ∓1) in sensory eq quadrants and ED sleep in (-√-1...-1) in alternate polar quadrants in FD-phases of alternate systems.

- REM sleep: FD sleep (±√-1... ∓1) in sensory eq quadrants and FD wake in (-√-1...-1) in alternate polar quadrants in FD-phases of alternate systems.

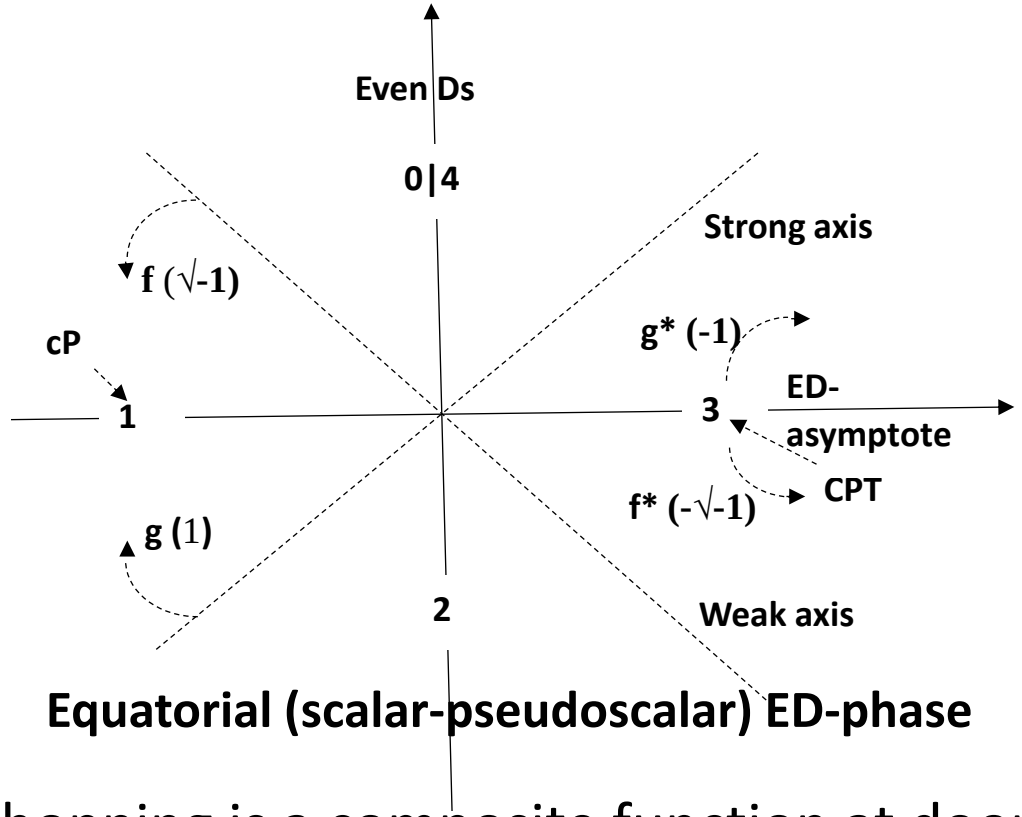
Equatorial stretch in spinor/unspinor space

Universal inversion of FD windlasses one at start of ED-phase the other at its end in GDS ↔ EDS toggle



- Stretch between incorporating highest infinite P|AP (as BNsensory on N) under subcritical stimulation and current unstimulated P|AP (BNmotor on N+1) is the superficial coat i.e., ±>>0 mult.↑ on selective randomness. Deep core i.e., ±<<0 additive↑, just out of Pure or absolutely unbiased randomness in CNS.

- As C-symmetry is hidden all elementary particles (±1|±√-1) are hidden at source. FD-phase: system untwistors (-1|-√-1 in EDS/GDS - Hilbert linear integral operators: g*|f*) shift journey from sensory to motor to cover total 720^0 → ED-phase: absolute churn at CNS → integral -1|-√-1 in BNm → fusion at BNs by +1|+√-1 - Hilbert linear differential operators: g|f → limits pseudoelements differentially in the form of scalar and pseudoscalar residues (multiplicative inverse at diff. operators > additive inverse → micro - fractal economy) ready (cP) be deciphered elementarily (CPT) in motor wing (3D on 4D).



Equatorial (scalar-pseudoscalar) ED-phase

- ED-phase is the diffeomorphism between face-face cP-symmetry [f (√-1) & g (1)] in add. sensory wing and back-back CPT-symmetry [g* (-1) & f* (-√-1) in mult. motor wing. It may be Cl-q measurement i.e., still mode. Cl-q mapping may accompany sensory untwist of FD-phase (±1, under PT-symmetry) in EDS i.e., movie mode.

- π-chopping is a composite function at doorways of ED-phase, same as joint group untwist operation, where system toggles (GDS ↔ EDS) in unit Planck's time along the beats of cosmic pulsation. In ED-phase EDS and GDS run jointly to get nullified.

- In superficial awareness opposite functions indifferently run alternate in opposite directions, cPT/(0 = ±) - Null trend in FD-phase but in mapping movie mode cP/(0 < ±) - sensory congested trend prevails in indefinite Re/Im spells along hierarchy conditionally.

- Primary multiplicative inverse: complex operation on polar axis (1D↑) with execution along equatorial axis → dark energy and gravity (1st order) orbitally with all connected individual ‘C of Julia’s, equatorial component of Intrinsic mass (IM) that control central processing … Deep awareness (0 > ±) - additive (‘0’) influence is stronger than multiplicative ones (‘±’).

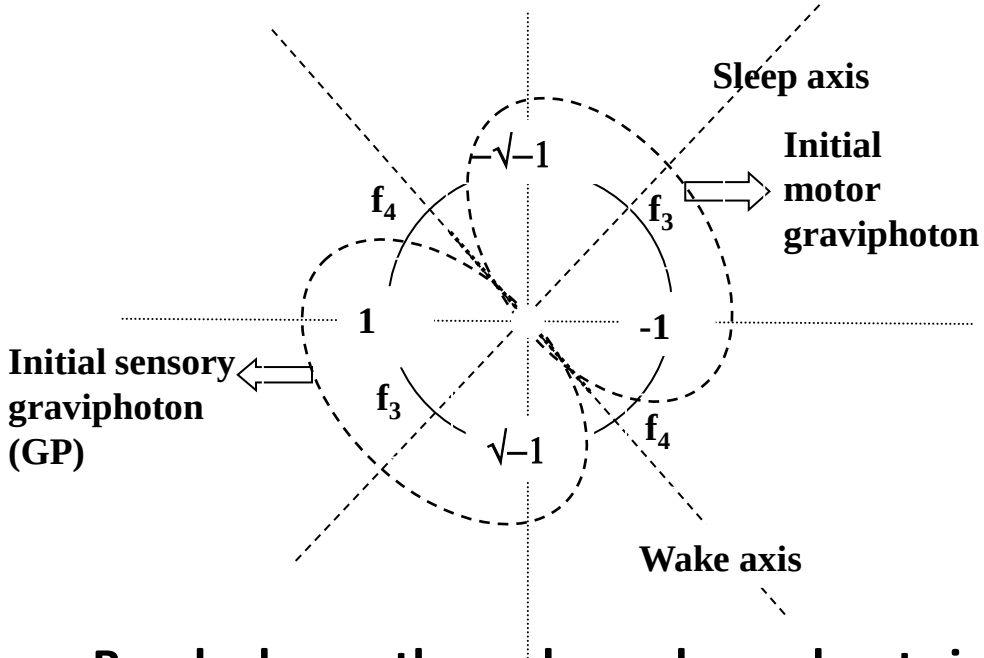
- Primary additive inverse: complex operation on equatorial axis that orbitally executes (3D↑) approximate poles → Shortening with inversion of sensory wing … Spontaneous symmetry break: 3 gauge fields - finite: weak → $0^{C} \mp +^{Q}$ & strong → $-^{C} \pm 0^{Q}$ are fields at about the poles and periodically infinite: EM field → $+^{C} \pm -^{Q}$, spanned between sensory and motor BN, is equator+orbital field ... orbital component of IM (Z*|Z) that control peripheral processing … Superficial awareness (0 < ±). IMs are selective randomness (finite stretch) collectively self-similar under nesting hierarchy (basic condition) out of Pure randomness (infinite One).

- Void gravity balance the equator: i) weak or conventional gravity (origin ON), resist forward drag contribute to equatorially unstable potential component of extrinsic or physical mass. ii) strong gravity collectively resist globally diverging masses forward (→ FN); act in equator as unspinor, local time ($-^{Q}$) → intergalactic release as dark matter backward (→ ON) in 3-2D.

- Intrinsic mass is slanting of √2 bar that defines sensitivity and specificity of the subsystem and default tuning of windlasses (at Z|Z* = 0). This normalise Re extremals of equatorial axes with Im extremals of polar axis in the subsystem. Finite odd or matter spin in sensory association space extracts fittest nontrivial '0' limit depending on this exclusive selective randomness out of Pure Randomness (absolute churn - neutralising ways of even D). This compose epigenomic phenotype that plays the keyboard of genotype of subsystem.

- Center of equatorial axis is set at CNS, site of common capture of universal event under nonstimulation of trivial '0'. It defines source of bio-evolute i.e., Pure randomness, central witness, where slanting of √2 bar is neutral (45^0). Here, y-intercept of the straight graph, plotted by number of boxes touching against increasing scaling factors in log-log scale, is zero → self-similarity where BNm merge with deep CNS in Macroscopic quantum system.

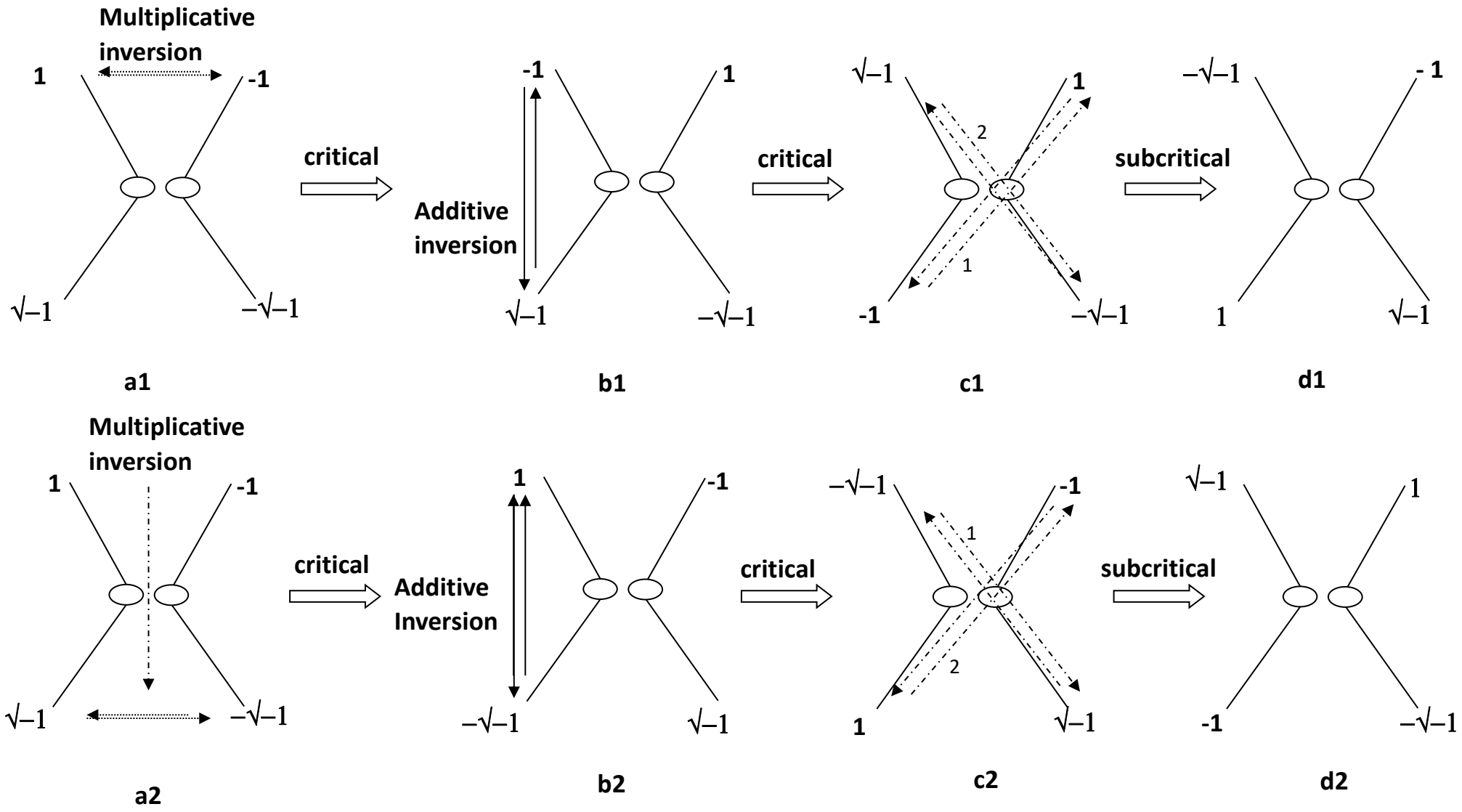
- a) 'C of Julia' a) Continuous or connected (Mandelbrot) i) Independent (living – odd consciousness) - MQS ii) Dependent (Non-living – even consciousness/reflectively odd-cP) b) Discrete or disconnected – Borderline non-microtubular agents e.g. virus, viroid, prion.



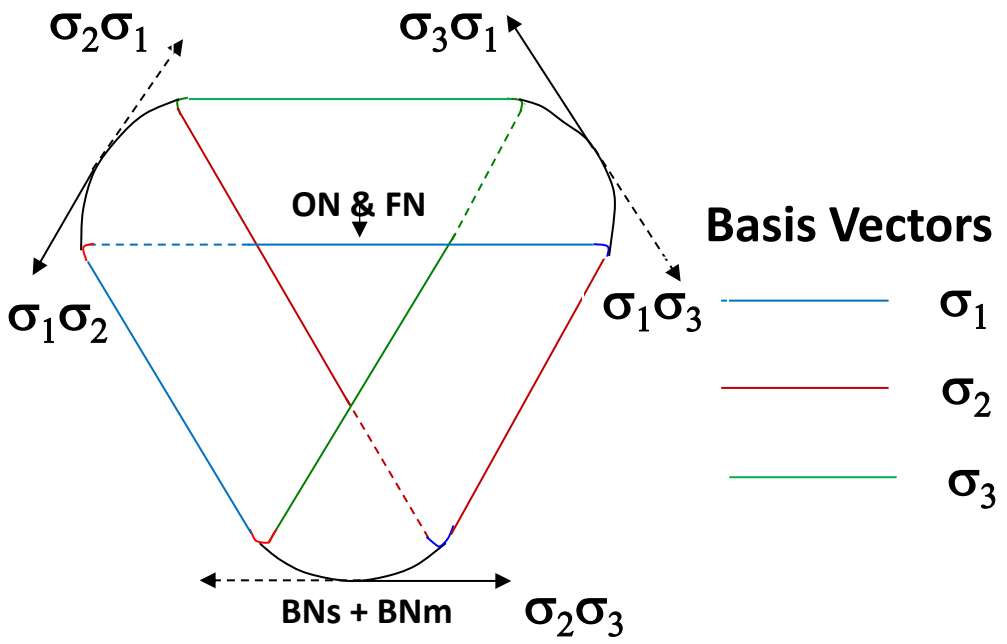
Break always through weak quadrants in volition, here, GDS → EDS

- Bifurcation and reassembling of two halves by group untwist operation resulting shift of system (GDS $\leftrightarrow$ EDS) are two types: i) Global bifurcation i.e., under critical stimulation. This may also be of two types: a) Primary i.e., Grand upset of Parent system and b) Initiation of volitional journey. In both the cases ED-sleep axis is strong axis binds strong ED-quadrants.

- ii) Silent or local bifurcation under subcritical stimulation happens in FD-phase. Here, group untwist operation involves inversion of both windlasses. Two halves do not get separated rather rearrange within themselves causing system toggle (GDS $\leftrightarrow$ EDS) periodically. Complexly cumulative orbital inertial game feed subsistence of equatorial exclusive IM of subsystem in multiplicative oddity for finite period.



Joint group operations or π-chopping in CMF (1-series EDS; 2-series GDS)



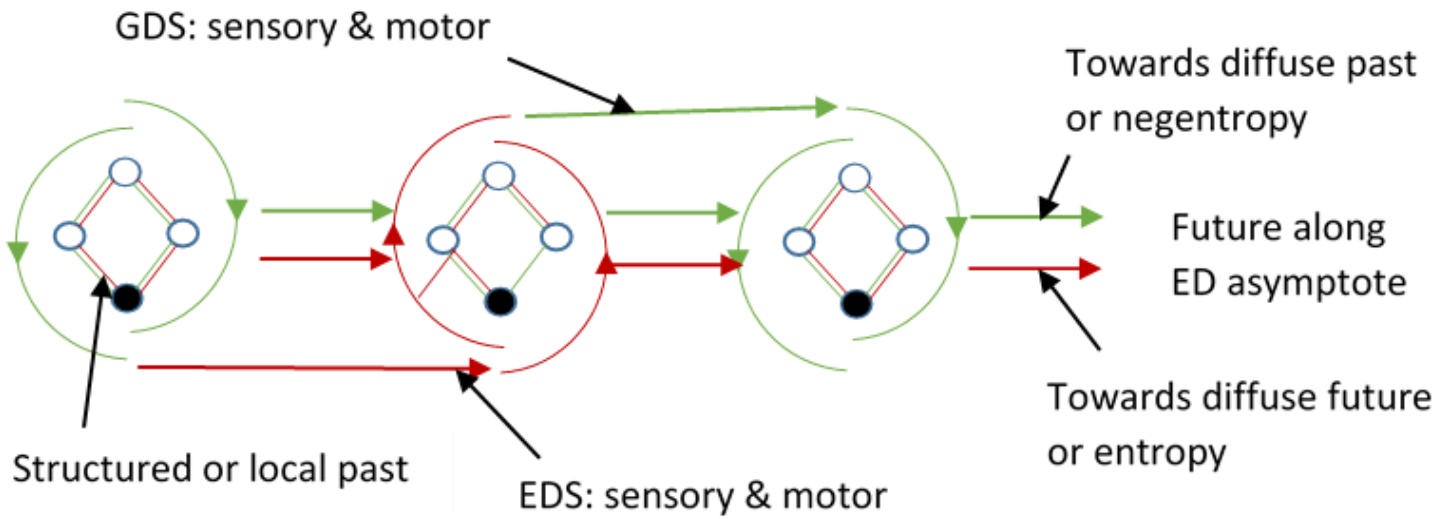
Basis vectors readily decode sensory inputs at diffeomorphic motor wing → store as quaternions

- Trinary codon string, homologous to the supercoiled genome, is the motherboard in sailing spacetime for joystick (IM) that truncates probability in instant favour.
- 3 bosonic forces at 3 conflexures are transform of central bosonic space (note: CNS → BS) : pure at equator and mixed near poles (basin and two shoulders).
- Always ON & FN are equidistant and in same direction from BNm.
- In the above basin of equatorial processing of polar information, rotational trajectories always cover same length of journey along both ways (**p**/**m**) validate entrapped open-angle triangular bosonic space as Finite Rotational Constant. Note: In Riemann $\zeta(s)$ $s=\sigma+it$ where $\sigma = 1/2$, up to BNm, denotes present Prime. it denotes present Antiprime.

Basis vectors ($\sigma_1, \sigma_2, \sigma_3$) are edges of central open angle triangular doughnut of motor wing (Odd or pointed 3D strip on the background of Even or flat 4D one). In self-organizing untwisting-twisting Möbius topology not only rational (**p** by $\sigma_1\sigma_2$ or Möbius symbol, $+^{Q}$), irrational (**m** by $\sigma_1\sigma_3$ or $-^{C}$), finite prime-antiprime (converged rationals and head component of irrationals along simultaneity) {Weak ($\sigma_2\sigma_1 \mp \sigma_1\sigma_2$ or $0^{C} \mp +^{Q}$), Strong ($\sigma_3\sigma_1 \pm \sigma_1\sigma_3$ or $0^{Q} \pm -^{C}$), Electro ($\sigma_3\sigma_2 + \sigma_2\sigma_3$ or $-^{Q} + +^{C}$)-Magnetic ($\sigma_2\sigma_3 - \sigma_3\sigma_2$ or $+^{C} - -^{Q}$) fields} but also infinite Prime space/scalar ($\sigma_1\sigma_2\sigma_2\sigma_3\sigma_3\sigma_1$ or $+^{C}$)- Antiprime time/pseudoscalar ($\sigma_1\sigma_2\sigma_3$ or $-^{Q}$) is expressed by these discrete unity vectors.

But if one track basis vectors in 3D self-organized strip on 4D background starting from one point beyond the open angle he/she will come back to starting point. So, even if they decode information by their discrete (oddity) unity vectors apparently, they are basically continuous (Evenness) along with their background. It is noteworthy that principal aphorism of topology demands continuity; and that is well satisfied, here. Hence Complex Möbius Field validates unification of all fields, including Null field or structureless and formless Dynamic Euclidean Field, under topological algorithm.

Wing neutralization



- Primary group untwist operation originates all intrinsic masses, feasible.
- MQS with lower IM covers more space in lesser time to meet next Common station ($\sigma_1\uparrow > \sigma_2\downarrow\sigma_3\uparrow$ - processing$\uparrow$).

- In present moment information processing jointly happens in same tuning microtubular electron (ED-phase) and conjugate tuning microtubular electrons (FD-phase) along the prior series along ED-asymptote towards unknown future both ways.

- Cl-q measurement is inside-out (c), a universal, phenomenon. Mode lock is holding EM field on unit electron volt for unit Planck time nullifies all fields → only be reached by reflective catch of infinite P as highest incorporated P in BNs i.e., in structured past.

Lorentz invariance (‘0-symmetry’ – better be termed as ‘Null-symmetry’)

i) Universal event in proper time (common P|AP) in ascending individual present moments.

ii) Rotational invariance: Mutual manifold (Mandelbrot $Z \neq 0$) neutralisation of complementary dynamical systems – clockwise (entropy - objectivism) | anticlockwise (negentropy – subjectivism, as relics of investment of energy).

- ED-phase: Rest IMs (σ_3) → ‘reset default tuning’ of windlasses → pacify subsystem’s noise to harmony in curvature on bio-evolute → C-symmetry → nonstimulation → Source.
- FD-phase (EM): alternate cycle under subcritical stimulation – prompt wing neutralisation a) unskipped – Awareness (cPT) b) skipped - Cl-q mapping → Re|Im (movie mode/cP).
- Volition: late neutralisation → Re and Im, after exhaustion of critical stimulation.
- Finite Rotational Constant – same length of trajectories between ON|FN and BN.

iii) ‘√’ (root over) normalization in orthonormality (Re|Im) ensured by neutral (45^0) slant of √2-bar in Pure randomness → unities of the same magnitude in the Pure core.

vi) Equatorial creation of Big Bang and Big Crunch simultaneously under CPT-symmetry.

Encoding and Decoding

σ_1 ('0' – 0|∞) → Null derivatives: 0^C and 0^Q (pseudovectors) – ascending steps define magnitude of polar end lag.

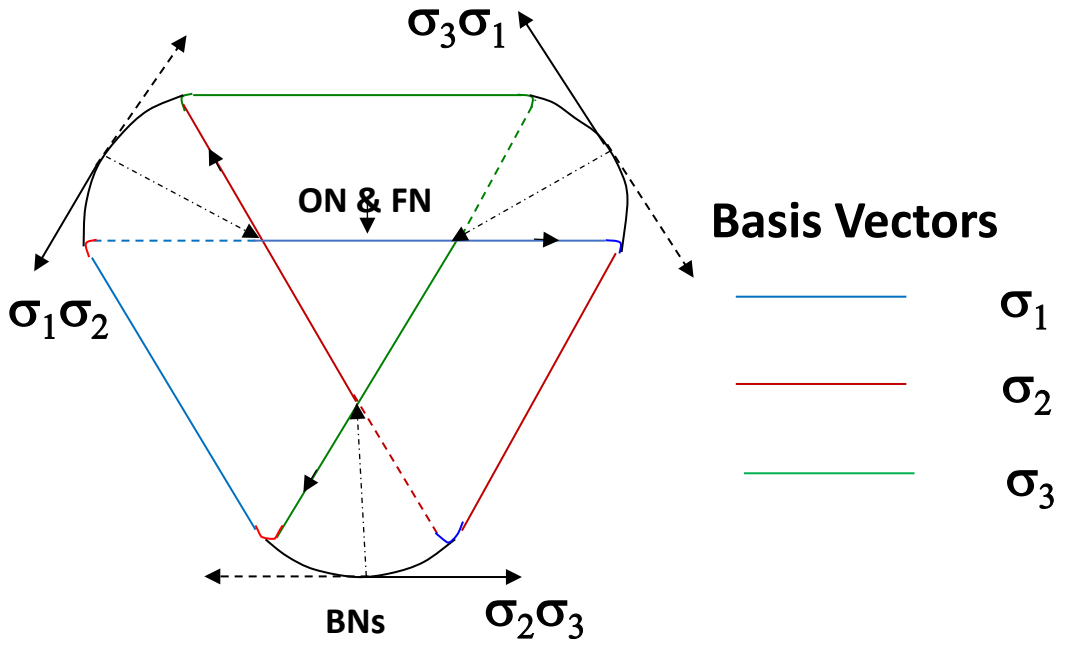
σ_2 ('+' position vector - multiplicative) → bivectors: $\sigma_1\sigma_2$ $(+^Q)$ / $\sigma_2\sigma_3$ $(+^C)$ / $\sigma_3\sigma_1$ (pseudovector $\mathbf{0^Q}$): $\sigma_1\,\sigma_2$ (spinor) and $\sigma_1\sigma_3$ (INS = tcINS-unspinor + hcINS: Back-Back spinor|unspinor) converge towards BN.

σ_3 ('-' momentum vector - additive) → bivectors: $\sigma_1\sigma_3$ $(-^C)$ / $\sigma_3\sigma_2$ $(-^Q)$/ $\sigma_2\sigma_1$ (pseudovector $\mathbf{0^C}$).

$\sigma_3\sigma_2 + \sigma_2\sigma_3$ → Electricity ($+^C$ + $-^Q$ / Z) – fwd – electronic equatorial property ('-' charge; electrical field) – principally free → → absolute churn in the core → Re, space, spinor in 3-4D (Bimodal with time in ED; outer convexity tangentially - fwd, axis at the center of Möbius strip) - $\sigma_1\sigma_2\,\sigma_2\sigma_3\,\sigma_3\sigma_1$ (1) Prime scalar.

$\sigma_2\sigma_3 - \sigma_3\sigma_2$ → Magnetism ($+^C$ - $-^Q$ / Z*) – bwd – atomic (nucleus '+' charge – North pole; magnetic field) polar property – principally fixed – Bistability → → absolute churn in the core → Im, time, unspinor in 3-2D, (concavity – bwd, bimodal with space, at center of Möbius strip) - $\sigma_1\sigma_2\,\sigma_3$ (√-1) - Pseudoscalar/trivector. (continuity beyond open angle: along $\sigma_1\sigma_2\,\sigma_3$ is unimodal, F-F but $\sigma_1\sigma_3\,\sigma_2$ is bimodal, nullification↑).

- Decoding (motor wing) – Motor wing decodes sensory inputs by basis vectors and store back on windlass hierarchy as quaternion update in Re + ***i*** + ***j*** + ***k*** format identifying ***i, j, k*** with $i^{\sigma 1}$, $-i^{\sigma 2}$, $i^{\sigma 3}$ respectively.
- Encoding (sensory wing) – Quaternion axes value open angles but being stimulated miss C-symmetry at center of σ_1 (time/rest spaces +). σ_1 favour indifference at source; σ_2 σ_3 favour difference at periphery.



EDS-strip: conventional Rt. hand (p) relation of vectors

- Orthogonal basis vectors edging central open angle triangular space shows Rt. hand (p) relation in pair.
- Bivectors along the two edges of open angle triangle represent rotation anticlockwise (outside-in) as in folded fingers of Rt. hand in reference to third basis vector where arrow on z-axis (i) directs oppositely i.e., clockwise.

- So, it is self-evident from Geometric Algebra supported by CMF above:

$$\sigma_1\sigma_2 = i\sigma_3 \; ; \quad \sigma_2\sigma_3 = i\sigma_1; \quad \sigma_3\sigma_1 = i\sigma_2$$

This is exactly the algebra of the Pauli spin matrices, visualized as spin(i)-rotation complementation in complex 3D vector space.

Null upset-set

- Null upset in Grand stimulation synchronize all sporadic stimulations ever possible, living (independent intrinsic masses equatorially) and non-living (dependent couples orbitally), in dynamic Cl-q way by rare chance on Null field under Primary joint group operation.

- After bifurcation wings are self-organized under complex nesting hierarchy as graviphotons. Discrete sensory space supported on diffeomorphic motor with conservation of angular momentum in equatorial quadrants (3D) stabilize escape speed of light absolute before IMs.

- Relation between elements and pseudoelements settle mult. / add. group action depending on ED or FD rules. Möbius functions obey geometric algebra in information processing.

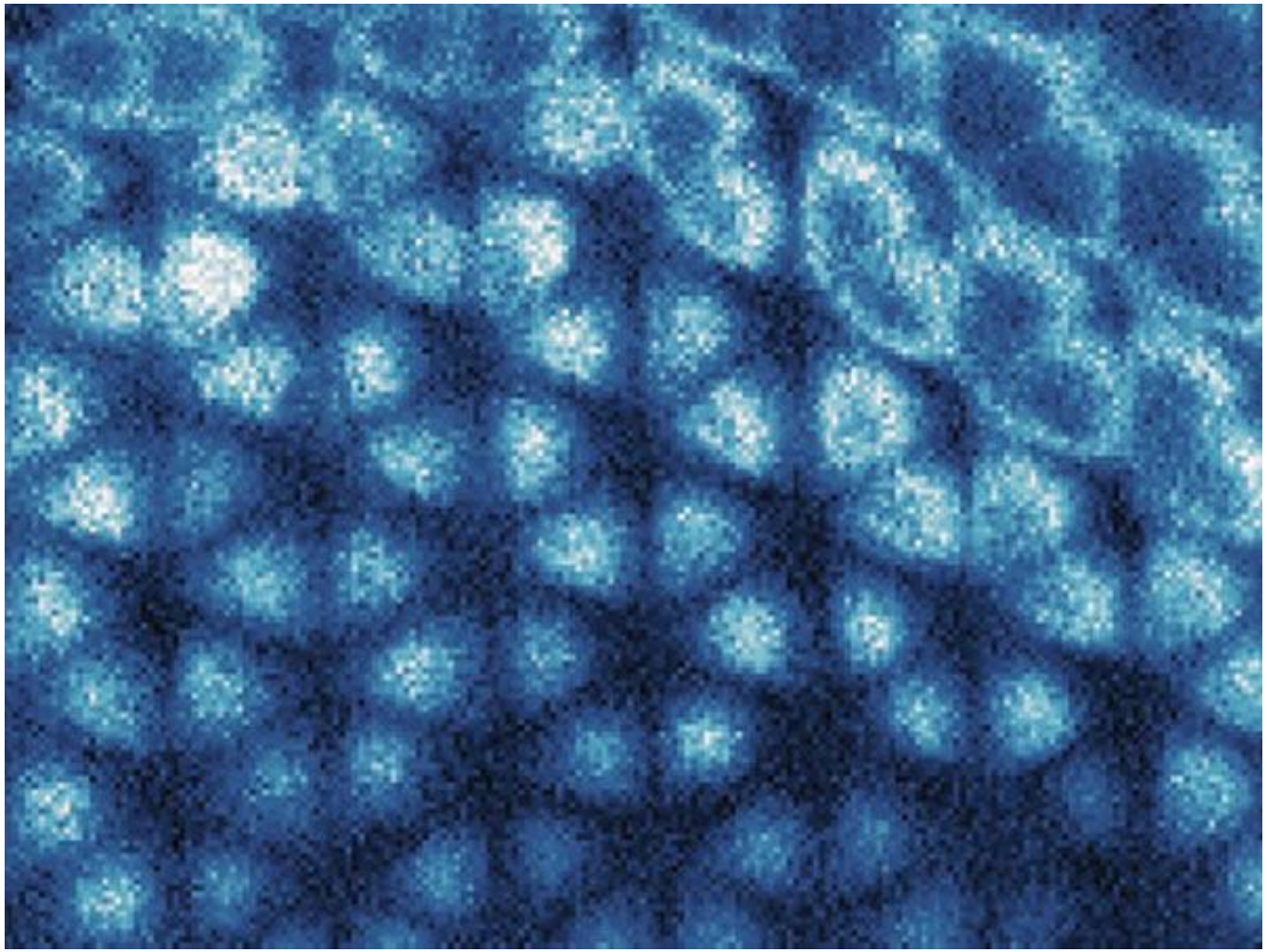
- Möbius topology evolutionarily adapts 180^0 partial inversion of body dynamism for complex specialized bilateral control. Re and strong (p) are mainly handled by Lt. pivot control and Im and weak (m) by Rt. pivot control is reflected in pyramidal decussation in higher vertebrates.

Conclusion

- Finite position is essentially a scalar or rational. Finite position vector ($\mathbf{p}$) is dragged scalar, hence a dependent vector. But momentum ($\mathbf{m}$) is an independent vector. Both finite primes and infinite Primes are mixed group elements, assembly of both group operators: multiplicative, $\mathbf{p}$ and additive, $\mathbf{m}$. But both finite antiprimes and infinite Antiprimes belong to solo group elements, formed only by additive group operator, $\mathbf{m}$.

- In absolute motor context, position always envelops momentum but in finite sensory (encoder) context momentum always function as boundary solution of position (EDS).

- Reductionism is partially correct as the goal stands on visionary that is weak (rational); in contrast, feeling is strong (irrational). Therefore, an approach processing optimum complexity where both tools are incorporated is comprehensive.



First image of a solid made of electrons (Journal: 'Nature Briefing' 30th Sept. 2021)

Prediction expect verification

In the image of previous slide (first image of a solid made of electrons: Journal: 'Nature Briefing' 30th Sept. 2021) where capture of Wigner crystals get magnified, one may notice that electron (a fermion) structurally organizes in the form of a Lorenz attractor.

In my work, "Complex Möbius Field: The Web of Consciousness - Part l", Journal of Consciousness Exploration & Research, 2019 10(1) page 44, this came as an important proposition:
"Therefore, as the input is qualitative, the response is also subjective. In phase space, stimulated journey (critical or subcritical) has the collective appearance of a Lorenz attractor (Fig. 18). One may find that the Lorenz butterfly shaped attractor is the subjective presence of the processing fermion in phase space."

References:

[1] & [2] Bidyut K. Sarkar, 2019, "Complex Möbius Field: The Web of Consciousness" - Part I & Part II, *Journal of Consciousness Exploration & Research*, 10(1): pp. 24-64.
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Corrigenda

- **Lorentz → Lorenz i) Journal of Consciousness Exploration & Research (JCER) 10(1) – Complex Mobius Field: The Web of Consciousness Part I: Page no. 44 - 17th line. ii) Part II: Page no. 62 – 26th and 34th lines.**
- **Fig. 4 in Complex Mobius Field: The Web of Consciousness Part I (JCER) 10(1) → Fig. slide 29 in Project Presentation.**
- **local future ($-^{C}$) and past ($+^{Q}$) → local past ($+^{Q}$) and local future ($-^{C}$) JCER 10(1) Complex Mobius Field: The Web of Consciousness Part I: Page no. 44 – 25th line.**
- **quarternion → quaternion JCER 10(1) - Complex Mobius Field: The Web of Consciousness Part II: Page no. 58 – 11th and 13th lines.**
- **two → one and quarternion → quaternion http://researchoutput.csu.edu.au/ Role of Nonlinear Dynamics in Endocrine Feedback: Page no. 28 – 21st line and Page no. 29 – 15th line respectively.**
- **structure → rotational JCER 11(2) 'Complex Mobius Field: The Web of Consciousness' Revisited: Page no. 23 – 6th line.**
- **-√1 → -√-1 JCER 12(3) Consciousness & Instrumental Astronomy: Page no. 279 – Fig. 1.**