

A brief overview general formalisms Physics

Abstract

Real time observation of magneton has provided physical mathematics formalizing Iyer Markoulakis superluminous point dynamics eigen matrix with Helmholtz decomposition fields. Gaging of mechanics to Coulomb Hilbert electromagnetic Higgs mass fields have enabled modeling of physical mathematics, transforming micro to macro with proof formal functional matrix. Observables extracted properly out of theoretical formalisms exemplify problem-solving mesoscopic matrix environment. Warping of absolute zero vacuum to real space with non-empty vacuum, via the processes of switches sense and time sense have been mathematically analyzed having signal/noise aspects of real space. Extended transformations with gradient vortex unitary energy point physics provide natural emergence. Highlights of originally developed model of Iyer Markoulakis O'Neill Malaver quantum astrophysics formalism has gotten put together with Wenzhong Hodge scalar frictional vacuum theory of hod-Plenum, dissipative discontinuity of modeling gage physics, giving an Integral Model Astro Quantum PHYSICS.

Keywords: magneton, eigen point tensor dynamics, Coulomb Hilbert gage, observables, superluminous quanta, magnetic hod, Pauli Dirac Planck circuit, warping absolute vacuum

Editorial

Peer-reviewed publications^{1,2} have thoroughly derived quantitatively dissipative point Helmholtz decomposition, having gradient and the vortex actions mathematically characterized exactly with 2x2 eigen tensor matrix formula, first justified the use of magneton observations with a Ferrolens referred to as a Ferrocell - FerrocellUSA Trademark of US Patent 8246356 Magnetic flux viewer <https://www.ferrocell.us>. Helmholtz matrix running Density Field Matrix Eigenvector Operators per magneton^{1,2} observations enable physics mathematical quantum constructs.^{2,4} Detailed evaluation suggests Helmholtz matrix equated to gauge parameters of Coulomb charge and Hilbert-Higgs mass, signifying movement¹ to depend on inertia efficiently running with gravitational discipline transferring from vacuum to matter.⁴⁻⁸

Extending Iyer-Markoulakis formalism gaging to PDP circuit version has basically illustrated monopoles-particles assemblage, offering “perpetual motion machine” like mechanism quantum with darker to lighter universe!! This has made viable modeling Helmholtz Hamiltonian mechanics electromagnetic physics gaging charged fields having novel quantum circuitry version, i. e. Pauli Dirac Planck (PDP) circuit assembly with electron-positron pair, and north-south monopole pair, with the waft of arrow displaying gradient vortex matrix circuit.⁵ Putting collectively Iyer Markoulakis O’Neill Malaver quantum astrophysics formalism with Wenzhong Hodge scalar frictional vacuum theory of hod-Plenum, dissipative discontinuity modeling of gage physics has been superior.⁶ Key examples have been analogized by use of mesoscopic observables. Algorithm equation, having $[G_g]$: gage functional, Γ_g : signal/noise ratio of i-j detail of a duck-swan population pattern matrix, $(\varepsilon_{GR})_{g,i}$; gage fields of gradient and the vortex movements, $\langle [\Psi_d(t_g)] [\Psi^s(t_g)] \rangle$: wave function internal outer products, and $[\tilde{\mathbf{n}}_{ds}]$: quantum density matrix a function of t_g : gage time parameters have analytically formulated compactly in matrix formulation with ducks-swans population patterns.^{6,7} Physics conjecture making use of discontinuity dissipative aspects have capability to estimate speed profiles of photon in a vacuum, c ; however, graviton may also have speeds to c^4 , at the same time as superluminal vacuum quanta may also have speeds more than c^4 however much less than infinity; power density profile computations of the quanta are viable.^{6,8}

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Q: What is probable mass of superluminous quanta? Typical analytical solution: Mass of superluminous quanta = (quantum_density_matrix)(volume); volume = (surface_area)(thickness); thickness = zero with 2D superluminous quanta. Therefore, 2D superluminous quanta may be massless!! Massless progenitor superluminous quanta forming magnetic hood stabilized using PDP circuit mechanism should be taken into consideration to explain the actual universe!!

Warping absolute matrix quantum vacuum: We may also understand absolute vacuum mathematically analogous to 0 null stringmetrics such as,⁴⁻⁸ however all with all 0 metrics.

$$[0] = \begin{pmatrix} & & 0 & 0 \\ & & 0 & 0 \\ & 0 & & 0 \\ 0 & 0 & 0 & 0 \end{pmatrix}$$

This seems analogous to a {traceless} magic square matrix symmetry with {row, column, pan-diagonal, diagonal} summation all 0, satisfying necessities of magic square matrix. However, due to the fact magic square matrix is not a proper symmetry, and that prime factorization spontaneously transforms absolute 0 vacuum null matrix to non-empty vacuum. This is proven to be conceivably viable with subsequent schema, quantitatively analyzed by using matrix operational algebra.

We represent equivalent matrix extended transformations like quantification mathematically:

[$\{0\}$] dissociating spontaneously $\Rightarrow \text{off}_{\text{on}}^{\emptyset}(\Psi_{\Gamma^+} \Psi_{\Gamma^-} \Psi_{\Gamma_g^+} \Psi_{\Gamma_g^-})$
 switches sense to evolutionary $\Rightarrow \text{off}_{\text{on}}^{\emptyset} \left(\begin{matrix} \tau_X \\ \tau_Y \\ \tau_Z \end{matrix} \right) (\Psi_{\Gamma^+} \Psi_{\Gamma_g^+} \Psi_{\Gamma_g^-} \Psi_{\Gamma^-})$ time sense
 to emergent $\Rightarrow \text{off}_{\text{on}}^{\emptyset} \left(\begin{matrix} \Gamma_X^{\text{on}} & \Gamma_Y^{\text{off}} & \Gamma_Z^0 \\ \Gamma_X^{\text{off}} & \Gamma_Y^{\text{on}} & \Gamma_Z^{\text{off}} \\ \Gamma_X^0 & \Gamma_Y^0 & \Gamma_Z^{\text{on}} \end{matrix} \right)$ real space, where: $\left(\begin{matrix} \emptyset \\ \text{off} \\ \text{on} \end{matrix} \right)$ are modes
 of switches providing directionality. $\left(\Psi_{\Gamma^+} \Psi_{\Gamma^-} \Psi_{\Gamma_g^+} \Psi_{\Gamma_g^-} \right)$ represent

probability functions quantifying distributions of signal/noise sense $\{\psi_{\Gamma^+} \text{ +ve/clockwise}, \psi_{\Gamma^-} \text{ -ve/anticlockwise}, \psi_{\Gamma_g^+} \text{ +ve/anticlockwise}, \psi_{\Gamma_g^-} \text{ -ve/clockwise}\}$. $\begin{pmatrix} \tau_x \\ \tau_y \\ \tau_z \end{pmatrix}$ represent time evolution. $\begin{pmatrix} \Gamma_X^{on} & \Gamma_Y^{off} & \Gamma_Z^0 \\ \Gamma_X^{off} & \Gamma_Y^{on} & \Gamma_Z^{off} \\ \Gamma_X^0 & \Gamma_Y^0 & \Gamma_Z^{on} \end{pmatrix}$

represent expanding space matrix characterizing signal/noise distribution over $\{X, Y, Z\}$ real space with the $\{0, off, on\}$ switching modes to generate a real dynamic space time!!

We can evaluate above schema with procedures^{6,7} to operate $f(X) = X$ by a numerical iteration procedure methodology, with initial value $X = \text{noise}$, gaging $g(X) = f(X) = 1$. It will satisfy unitarized $\hbar\omega = 1 = f(\text{noise}) = i\Psi = \text{signal} = E/mc^2$ equivalence.⁶⁻¹⁰

Real space signal/noise $\{0, off, on, X, Y, Z\}$ finite element modeling with computer simulation programming achieving grand unifying PHYSICS with gage discontinuity dissipative theoretical^{6,7} research is proceeding to explain how evolutionary emergent everything nature theory get advanced towards meaningful knowledge.²⁻¹⁰

Overall conclusion

- i. Modeling quanta point dynamical fields per Iyer Markoulakis O'Neill Malaver quantum astrophysics gage formalism provided a way to transform Helmholtz decomposition gradient vortex mechanics actions to electromagnetic events.
- ii. Algorithm equation matrix pure mathematical proof formalism has laid solidly foundation for parametric physics verifiable experimental designs obtained logically from formalisms configuring eigen gaging fields, quantum density matrix, coupling functional, probabilistic wavefunctions, signal/noise ratioing time space sense.
- iii. Original developed model of Iyer Markoulakis O'Neill Malaver quantum astrophysics formalism has gotten put together with Wenzhong Hodge scalar frictional vacuum theory of hod-Plenum, dissipative discontinuity of modeling gage physics, giving an Integral Model Astro Quantum PHYSICS.
- iv. Observables mesoscopic have been extracted from resultant integrated quantitative gage physical formalisms. Statistically,

for given population pattern, modulating scalar potential quantum density matrix with dynamic speeds and power density profiles help to compute evolving observable energy density matrix explicitly.

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None.

Conflicts of Interest

None.

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