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Education:

2012. July: D.sc, (Mathematics): "Green House Effects and other essays" To be submitted/to be registered. Thesis is ready for submission. Another Thesis "Mathematical Models in Quantum Computation" is nearing completion (Nearly 40 papers published/accepted)

Published/accepted work is sufficient for submission of thesis for award of a D.sc, in Economics, Computer Science, Mathematics, Physics, and Consciousness Studies and Mathematical Sociology

2011. D.Litt., in Political science: Kuvempu University, Shimoga, Karnataka

Thesis Title: Mathematical models in Political Science – Research in Policy Studies: Accentuation, Attrition models, Duality of Motion of a Bank, and Maximization problems (Theoretical Finance/ Financial engineering/ Econometric Theory Application of Mathematical Physics).

2000. PhD in Political science: Kuvempu University, Shimoga, Karnataka

Thesis Title: Mathematical models in Political Science –Review and criticism of Mathematical Models in political science (Theoretical Finance/Simulation Models)

1997. PhD in Economics: Kuvempu University, Shimoga, Karnataka

Thesis Title: Dynamics of Planning – A Case study of Indian Planning (Econometric Theory/ Mathematical Economics/Monetary Theory/Monetary modeling/Macro economics)

1987. PhD in Mathematics: University of Mysore, Karnataka

Thesis Title: Tangent bundles, Normal bundles in MHD (Pure and Applied Mathematics, Differential Geometry/MHD/Plasma Dynamics/Rayleigh Taylor instability/Shape Operator)

2011. M.sc, (Information Technology),KSOU-Being pursued
2001. M.A, English, Karnataka State Open University
1999. M.Com, Commerce, Madurai Kamraj University
1996. M.A, Sociology, Karnataka University
1995. M.A, Political Science, Sri Venkateshwara University
1988 .M.A, Economics, Karnataka University
1975. M.Sc., Mathematics, Bangalore University
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http://www.iiste.org/Journals/index.php/APTA/article/view/3162
http://iiste.org/PDFshare/KumarAPTA.pdf
Page No 30-1772. This paper is organized as follows:

Chapter 1: Physical Consciousness and Mental Consciousness: Pre individual singularities and impersonal neutralities

Section 1: Objective Reality - Subjective Experience - Gratification-Deprivation-Consciousness-Unconsciousness - Quantal Complimentarity and Metalogical Unequivocality
Section 2: Platonic World - Physical World And Mental World: A Aletheia-Akrasia Model
Section 3: Physical Consciousness and Mental Consciousness
Section 4: Ontic Traditions and Transformation of a Persons State Of Being - A Extrinsic Predications And Consummate Abstractions Model
Section 5: Consummate and Consolidated Statement of section 1 to section 4 - A Gelassenheit and Geworfenheit Model-Affective Consciousness and Quantum Field Theory – A Model of Acolytish Representation and Atrophied Aneurism

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[53] Dr K N Prasanna Kumar, Prof B S Kiranagi And Prof C S Bagewadi – Six Quarks' Decay Modes, With Mass Increase: A Rerum Cognoscere Causes And Ramifications- Published At: "International Journal Of Scientific And Research Publications (IJSRP), ISSN 2250-3153, Monograph, November 2012,

http://www.ijsrp.org/monograph/six-quarks-decay-modes-with-mass-increase.pdf

[54] Dr K N Prasanna Kumar, Prof B S Kiranagi And Prof C S Bagewadi – Measurement of Quantum State: Adequatio Intellectus Nostri Cum Re -A Zeitgeist Model - Published At: "International Journal Of Scientific And Research Publications (IJSRP), ISSN 2250-3153, Volume 2, Issue 11, November 2012 Edition

http://www.ijsrp.org/research-paper-1112/ijsrp-p1121.pdf

[55] Dr K N Prasanna Kumar, Prof B S Kiranagi And Prof C S Bagewadi – Matrix Models, String World Sheet Duality, And Others (A Model Ad Consequentiam A Gestalt Gesamtkunstwerk)- Published At: "International Journal Of Scientific And Research Publications (IJSRP), ISSN 2250-3153, Monograph, December 2012

http://www.ijsrp.org/monograph/matrix-models-string-world-sheet-duality.pdf

[56] Dr K N Prasanna Kumar, Prof B S Kiranagi And Prof C S Bagewadi - Loop Quantum Mechanics, Noncommutative Geometry, Twistor Theory, Thom's Catastrophe Theory, Bifurcation And Nonlinear Dynamics, The Weight of The Vacuum ,Coherent Pulsed Laser, Thermal Incoherent Source ,Localization And Entanglement Et Al., Locus of Essence, Sense And Expression, Principal Frontier of Diurnal Dynamics And Differential Posteori Thereof: A Model Nebraskan Nebuchadnezzar Sprachgefuhl ,Published At: Advances in Physics Theories and Applications, www.iiste.org, ISSN 2224-719X (Paper) ISSN 2225-0638 (Online) Vol 10, 2012,
http://www.iiste.org/Journals/index.php/APTA/article/view/3502
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Page No 20-1544, This paper is organized as follows:

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[57] Dr K N Prasanna Kumar, Prof B S Kiranagi And Prof C S Bagewadi - Topological Geometrodynamics, Compactifications of F-Theory and M-Theory Binary Strings, Einstein's Mass Energy Equivalence, Higgs Boson Decay, Covariantly Constant Yang–Mills Background, et al.: A Aedificium-Edifium Sui Generis Models

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[58] Dr K N Prasanna Kumar, Prof B S Kiranagi And Prof C S Bagewadi - Kac-Moody Symmetry And Physical States And String Symmetries, Yang's Mills Theory And Supergravity Subjective Referral of The Timing For A Conscious Sensory Experience., Consciousness And Bose Einstein Condensates And Other Topics: Gestalt Ostzonensuppenwürfelmachenkrebs Zukunftsmusik Published At: Advances in Physics Theories and Applications, www.iiste.org, ISSN 2224-719X (Paper) ISSN 2225-0638 (Online) Vol 10, 2012, http://www.iiste.org/Journals/index.php/APTA/article/view/3828

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[59] Dr K N Prasanna Kumar, Prof B S Kiranagi And Prof C S Bagewadi - Computational Processes And Phenomenal Consciousness, Mental Presence And The Temporal Present, Presence And Reality Panpsychism, Neuronal Oscillations, Chaos, Subjective Experiences, Super Yang Mills Theory, Fermi Spaces, Complexity Et Al :An Ostzonensuppenwürfelmachenkrebs Bellum Omnium Contra Omnes-Mors Tua Vita Mia Models   Published At: Advances in Physics Theories and Applications, www.iiste.org,   ISSN 2224-719X (Paper) ISSN 2225-0638 (Online) Vol 10, 2012,

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[60] Dr K N Prasanna Kumar, Prof B S Kiranagi And Prof C S Bagewadi - Molecular Computation of Solutions And Combinatorial Problems, Computers and intractability, Quantum spinning strings ,Gauge Symmetry and Supersymmetry ,Quantum computation, Computational Complexity ,Black Holes Without Firewalls, et al: A Dere De Profundis-Sententia Fidei Proxima Model Published At: Advances in Physics Theories and Applications, www.iiste.org, ISSN 2224-719X (Paper) ISSN 2225-0638 (Online) Vol 10, 2012,

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[61] Dr K N Prasanna Kumar, Prof B S Kiranagi And Prof C S Bagewadi - Attenuation of Mesoscopic Echoes In A Spin-Chain Channel, Anti-Zeno Polarization Control of Spin Ensembles, Quantum Information, Quantum Wells, Hadrons, Spatial profiles of fusion product flux, Proton spin-lattice relaxation in a liquid crystal , Quantum Confinement And Lattice Gauge Field Theories et al Deo Ac Veritati-Deus Ex machina Model Published At: Advances in Physics Theories and Applications, www.iiste.org, ISSN 2224-719X (Paper) ISSN 2225-0638 (Online) Vol 10, 2012,

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[62] Dr K N Prasanna Kumar, Prof B S Kiranagi, Asst Prof Gnanendra Prabhu - Quantum Computation , Neurobiology, Quantum Holography , Heisenberg Theory,String Theory, Evolution of Space-time, Mind And Complex Systems, Quantum Entanglement , Cold Atoms , Intermolecular Interactions , Hypercomputation Already Extant And Existential In Special Relativity Et Al:A Model Gedankenlautwerden-Genetheto Phos Fiat Lux   Published At: Advances in Physics Theories and Applications, www.iiste.org, ISSN 2224-719X (Paper) ISSN 2225-0638 (Online) Vol 10, 2012,

The full paper is available at:

Section 1: Quantum Computation and Neurobiology, Single-Neuron Correlates of Subjective Vision and the Human Medial Temporal Lobe, The Neural Correlate of Consciousness and Unconsciousness, Single Units and Conscious Vision, Matter and Imagination: schizophrenia Schnook-Sarcophagus Saprophyte Model

Section 2: Quantum Holography and Neurocomputer Architectures., Heisenberg Theory and Signal Theory, Mathematical Specification of Evolution and the Psi Field, Algebraic Topology Is Important In Neuropsychology: A Rocky Razzmatazz and Autumn Sonata Model: Genetheto Phos Fiat Lux

Section 3:Molecular Computation Of Solutions And Combinatorial Problems, Quantum Computing And Fault Tolerant Computation With Constant Error, Quantum Mechanical Automata And Internal Consistency Of Fault Tolerant Quantum Error Correction: A Model For Theme And Potentialities Thereof: A Particularistic Predicational Pronouncement

Section 4: Existence of Faster than Light Signals and Hypercomputation already extant and existential in Special Relativity: A Sequiter Communicatio Idiomatum Model

Section 5: String Theory: Rational Representations And Consummate Abstractions

Section 6: Evolution Of Space Time, Mind And Complex Systems: A Model Aei Koloios Para Koloioi Hizanei Model: Natura Valde Simplex Erst Et

Section 7: D-branes as coherent states in the open string channel, Quantum entanglement and teleportation in higher dimensional black hole spacetimes, Et Al,: A model Narturam Expellas Furca –Tamen Usque Recurrect

Section 8: Vacuum polarization effects in hyperons-rich dense matter, Quantization of Scalar Fields in Curved Background and Quantum Algebras, Meson-nucleon vertex form factors at finite temperature Et Al, Nemo Saltat Sobrius- Non Causa Pro Causa Model

Section 9: Cold atoms Vis-à-vis color superconductivity, Unitary Fermi gas fluctuation, and quark matter, Neutrality issue in QCD Vis-à-vis the

Polyakov-loop Nambu–Jona-Lasinio model Et Al,: A Ausbhusprache-Zwitterion Model

Section 10: AdS/QCD models describing a finite number of excited mesons Vis-à-vis Regge spectrum, Weinberg like sum rules Vis-à-vis growth of poly (3-hexylthiophene) layers employing ionic liquids Et Al,: A Model Natura Non Facit Saltus-Quid Est Veritas Model

Section 11: Fermi Gap Stabilization of an Incommensurate Two-Dimensional (Surface electronic structure) Superstructure, Shockley state and Surface reconstruction: A Contential Staticity and Presciential Dynamics Model

Section12:Intermolecular Interactions ,Geometric Structure Of Large Pi-Conjugated Molecule, Adsorption Energy And Geometry , Physisorbed Organic Molecules, Atomic Contributions, Rashba Spin-Orbit Splitting In Surface Alloys, Spin-Orbit Interactions, White Noise Analysis, Periodic Boundary Conditions, Water-Electron Complexes, Nano Dots Et Al

Section 13:Highly ordered palladium nanodots and nanowires from switchable block copolymer thin films, hexagonally ordered arrays of metallic nanodots from thin films of functional block copolymers et al,: a dialectical transformation and disjunction of synthesis(bank example is recapitulated here –the conservativeness of the holistic and atomistic debits and credits)

Section14:Quantum Order In The Chiral Magnet Mnsi, Topological Hall Effect In The A-Phase Of MnSi, Metastable Superfluidity Of Repulsive Fermionic Atoms In Optical Lattices Et Al,: Internal Differentiation And Structural Morphology And Noematic Attributes Thereof

Section15 : Kondo screening cloud in a one dimensional wire: Numerical renormalization group study, Friedel oscillations and the Kondo screening cloud: A Quantum impurity problem, The applicability of bosonization and the Anderson-Yuval methods at the strong coupling limit of quantum impurity problems: A Accolytish Representation and Apocryphal Aneurism Model

Section 16: Classicality in discrete Wigner functions and phase-space representations, stabilizer states, phase-space representations and quantum superpositions , Decoherence induced(eb) by a dynamic spin environment central spin model, Loschmidt echo: A Model Felix Qui Potuit Rerum Cognoscere Causas

Section17: Entanglement and optical parametric oscillator, A Quantum Walk with Adjustable Coin Operations, Robustness of bipartite Gaussian entangled beams and propagating in lossy channels, Hong-Ou-Mandel interference and parametric down-conversion : Ada Equatio Intellectus Nostri Cum Re

[63]   Dr K N Prasanna Kumar, Prof B S Kiranagi, Asst Prof Gnanendra Prabhu -Bose-Einstein Condensation, Fermi Systems , Color Superconductivity , Signatures of Klein Tunneling, Decoherence And Disorder In Quantum Walks , Quantum States, Lorentz Violation , String Theory, Ghost Condensate , Consciousness And Logic In A Quantum-Computing Universe Et Al: Ab Aeterno- Ab Anti quo-Ab Extra Model Published At: Advances in Physics Theories and Applications, www.iiste.org,   ISSN 2224-719X (Paper) ISSN 2225-0638 (Online) Vol 10, 2012,

http://iiste.org/Journals/index.php/APTA/article/view/3836

The full paper is available at:

http://iiste.org/PDFshare/APTA-PAGENO-10817-12421.pdf

 Section1: Type-II Goldstone bosons and Bose-Einstein condensation, strongly interacting Fermi systems in 1/N expansion, Cold atoms to color superconductivity Diurnal Dynamics and Bipolar counter actualities thereof

Section 2: Signatures of Klein tunneling in disordered graphene p-n-p junctions, Optimal topological spin pump and Free Random Levy Matrices, Aharonov-Bohm oscillations in disordered topological insulator nanowires: Essential Predications and Suspensional neutralities thereof

Section 3: Non-Gaussian fluctuations of mesoscopic persistent currents, Andreev reflection at half-metal-superconductor interfaces with non-uniform magnetization, Andreev reflection from non-centrosymmetric superconductors and Majorana bound state generation in half-metallic ferromagnets: Model Obscuris Vera Involvens et Omnia Munda Mundis

Section 4: R-operator, co-product and Haar-measure for the modular double, Haldane-Wu statistics and Rogers , Thermodynamics and conformal properties of XXZ chains with alternating spins::Qualitative Gradient of Structural Differentiation and Solidarity Abstraction thereof

Section 5: Muon Spin Rotation and Mössbauer Investigations of the Süpin Transition in [Fe (ptz) 6] CIO4)2 Valence and Magnetic Transitions in YbMn2Si2-xGex, Magnetic Structures and Valence Transitions: Ansatz Entscheidungsproblem

Section 6 : Hybrid squeezing of solitonic resonant radiation in photonic crystal fibers, Decoherence and disorder in quantum walks Et Al, : A Welträtsel-Weltanschauung

Section 7: Entanglement of Formation and Bipartite Quantum States, Two-Setting Bell Inequalities <u>for</u> Many Qubits with non locality, Concurrence-based entanglement measure <u>for</u> Werner States: Rational Representations and Conferential Extrinsicness

Section 8: Micro-Structuring Of Nd: YAG Crystals <u>By</u> Proton Beam Writing Vis-À-Vis Electronic Polarizability Caused By Nuclear Collisions(Microstructuring Of Nd: YAG Crystals By Proton-Beam Writing, Quantum Entanglement And Nonlocality Et Al. : A Model Zeitgeist-Gesellschaft-Gestalt Model

Section 9: YAG crystals <u>by</u> proton beam writing , Quasi-one-dimensional photonic lattices and superlattices<u> ,</u> Stability of the solitons, Linear and nonlinear discrete diffraction of light, Arbitrary Dimensional Bipartite Quantum States et al

Section 10: A Acaelo Usque Ad Centrum- A Mari Usque Ad Mare Model For Optimal Chirped Probe Pulse Length For Terahertz Pulse Measurement, Laser Plasma Interaction, Laser Plasma Radiation, Terahertz Radiation, Spectral Encoding, Theoretical Analysis And Simulations Of Strong Terahertz Radiation From The Interaction Of Ultrashort Laser Pulses With Gases, Laser Plasma Interaction, Particle-In-Cell Simulation, Ionization Current, Carrier Envelope Phase, Attosecond Et al

Section 11: Primordial Gravitons (From) <u>Vis-À-Vis</u> The Vacuum, Observation(And)<u>Vis-Avis</u> Loss Of Quantum Coherence And Or State Collapse, Quantum Gravity <u>Vis-Avis</u> Imprint On Initial Cosmological Perturbations: A Model Abstandsprache- Ausbhuprache

Section 12: Lorentz Violation A Gemeinschaft- Gesellschaft Model

Section 13: String Theory Vis-à-vis Tensor VEVS (Kostelecky-Samuel 1989), Cosmological Varying Moduli(Damour-Polyakov1994), Brane World Backgrounds (Burgess Etal. 2002): A Gestalt-Zeitgeist Model

Section 14: Ghost Condensate In EFT And Einstein Aether Theory, Brane World Backgrounds And Renormalizability Of Canonical Quantum Gravity, Spin Network Calculations In Loop QG And TransPlanckian Problem With Hawking Radiation: A Vergangenheitsbewaltigung-Erlennis Model

Section 15: Modified Dispersion Relation With Momentum Expansion: Entia Non Sunt Multiplicanda Praeter Necessitatem Model

Section 16: Consciousness and Logic in a Quantum-Computing Universe : A Nemo Saltat Sobrius- Nihil Ultra Model

[64] Dr K N Prasanna Kumar, Prof J.S.Sadananda, Associate Professor S.Shankar - Assets and Liabilities of a Bank,Tobin's Model of the

Transactions and Demand for Money, Inflation Tales and Static Models,Correlated Equilibrium as an Expression of Bayesian Rationality, Values of Markets with Satiation or Fixed Prices,Subjectivity (Where Reduction Is Not Applied, Choice Is Purely Subjective Like Gerald Kramer's Probabilistic Model) and Correlation in Randomized Strategies Et Al:A Quidest Veritas-Deo Ac Veritate Models Published At: Research Journal of Finance And Accounting www.iiste.org , ISSN 2222-1697 (Paper) ISSN 2222-2847 (Online) Vol 3, No 10, 2012

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Section 1: Assets and Liabilities of a Subsidiary Bank In India: A Hauptidealsatz-Abasia Model

Section 2: Current Account (Debit Overdrafts) And Cash Payment Or Cheque Paid To The Borrow Who Holds The Current Account, Letter Of Credit (Bills Receivable: Bills Are Drawn On Destination Banks Of The Drawees And The Drawees Are Purported To Pay The Amount In Accord With The Axiomatic Predications And Postulation Alcovishness Of The Letter Of Credit) And Cash Credit Account Of The Borrower At The Originating Branch: A Encephalic Androgyny- Nebraskan Nebuchadnezzar Model

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[65]   Dr K N Prasanna Kumar, Prof J.S.Sadananda, Associate Professor S.Shankar - Extirpating Error Contamination Concerning the Post-Keynesian Anti-Pasinetti Equilibrium, Leontief's the Economy as a Circular Flow, Mathematical Vindication of Ricardo on Machinery, How a Certain Internal Consistency Entails the Expected Utility Dogma, Risk and Uncertainty & Analytical Income: Weltanschauung-Wertfreiheit Models   Published At: Research Journal of Finance And Accounting   www.iiste.org , ISSN 2222-1697 (Paper) ISSN 2222-2847 (Online) Vol 3, No 10, 2012

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The full paper is available here:

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Section 1: The Capital Asset Pricing Model with Diverse Holding Periods, Extirpating Error Contamination Concerning the Post-Keynesian Anti-Pasinetti Equilibrium, Leontief's ' Economy as a Circular Flow: A Acaelo Usque Ad Centrum Model

Section 2: Thermodynamic Theory As Mathematical Economics, Unattainability Of Integrability And Definiteness Conditions In The General Case Of Demand For Money And Goods,, Keynes, And Schumpeter: A Abstandsprache-Ausbhuprache Model

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Section 4: Optimum Social Security In A Life-Cycle Growth Model, Steady-State And Transient Relations, Log-Normal Approximation To Optimal Portfolio Decision-Making Over Many Periods: A Vergangenheitsbewältigung-Aha-Erlebnis Model

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Section 8:The Phillips Curve And Monetary Policy(An Argument That Focusing Our Attention On Even A New Keynesian Phillips Curve Link Between Real Activity And Inflation May Be Leading Us To Miss The Most Important Forms Of Causal Links Between Monetary Policy And Inflation).Et Al. : A Gestalt-Gesellschaft-Zeitgeist Model

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Section 10: Euler Equations, Bankruptcy and, Capital Allocation, Aggregate Effects and Capital Allocation, General Equilibrium Model, Price Stickiness, Price and Wage Contracting Et Al

Section 11: Monetary Policy Reaction, Optimal Fiscal Policy, Government Debt, Equity Issued By Private Firms, Model Uncertainty, Central Bank Independence, Institutional Foundations, Fiat Debt et al

Section 12: The Role Of Models And Probabilities In The Monetary Policy Process, Making Macro Models Behave Reasonably, Del Negro, Schorfheide, Smets And Wouters Papers And Comments Thereof: Et Al. A Model Digital Digamma And Baffling Binary

Section 13: Error Bands for Impulse Responses, Martingale-Like Behavior of Asset Prices Cost-Benefit Analysis for Data Dissemination Et Al. : A Model of Consummate Abstraction and manifestation of Histories

Section 14:Parameter Constancy In Co Integrated VAR-Models ,Bartlett Correction Factor For Tests On The Co Integrating Relations, Modelling Co Integration In The Vector Autoregressive Model : A Model Of Critically Botched Structuralism And Hauptidealsatz

Section 15: Dickey-Fuller test and co integrating coefficients in the co integrated vector autoregressive model, Correlation, and regression, and co integration of nonstationary economic time series Et Al. : A Entscheidungsproblem-Gedankenlautwerden Model

Section 16: Foreign Currency Risk Premia, Human Capital and Social Capital Housing Collateral Et Al.: A Model Scorcher of Scordatura And Insalubrious Salmagundi

[66] K N Prasanna kumar : Prediction flow matrix, Indian Journal of Economics, Vol. LXXII, Part II, No. 285, Oct. 1991

[67] K N Prasanna kumar: A Model for cumulative deposits of commercial banks in India, Indian Journal of Economics, Vol. LXXII, Part I, No. 284, July, 1991

[68] K N Prasanna kumar and C S Bagewadi : The Study of Steady MGD flow, Bulletin of Calcutta Mathematical Society, Calcutta, Vol. 82, P- 9-14, 1990

[69] K N Prasanna kumar and C S Bagewadi: On Plasma flows along Vortex Lines, Bulletin of Calcutta Mathematical Society, Calcutta, Vol. 81, Pages 76-89, 1989.

[70] K N Prasanna kumar and C S Bagewadi: The Study of Streamlines of MGD flow of a surface S in the image surface $\bar{S}$, Indian Journal of Pure & Applied Mathematics, 19(6):597-616, June 1988

[71] K N Prasanna kumar and C S Bagewadi: On the geometry of field lines in Plasma flows, Bulletin of Calcutta Mathematical Society, Calcutta, Vol. 80, Pages 47-60, 1988

PhD, In Mathematics:

Thesis dealt with the ramification of the differential geometry in the study of fluid dynamics. Generation, propagation and termination of shock waves, transactional traffic in the Plasma, and shape operator of Rayleigh Taylor instability are studied. Equations of images and their study help in the determination of regression coefficients and Oceanic Sunlight Interface studies. Image flow pattern was analyzed for inverse surfaces/Complimentary Surfaces/Parallel Surfaces/Middle Evolutes.

Name of the Guide: Dr. C.S. Bagewadi, Chairman, Department of Mathematics and Computer Science, Kuvempu University

PhD, In Economics:

Thesis dealt with the dynamics of Planning. Major Mathematical Model encompassing variables investment, output, income, transportation and reinvestment, which forecasts the quantum of each variable required in the eventuality of the given value of the other variable, was built. Detailed study of Indian planning, its discrepancies and inadequacies, analytics of planning, was a part of the thesis. Savings model on the lines of cumulative deposits in commercial banks, a Transactional Matrix Model for banks, Monetary Modeling of the economy, and Prediction flow matrix (interactions in trade transit flows) formed sine-qua-non of the thesis.

Name of the Guide: Dr. Abdul Aziz, ISEC, Chairman, Department of Economics

Dr. Ashok Chandra Prasad, Senior Economic Advisor, Ministry of finance, Department of Economic affairs, New Delhi

PhD, In Political Science:

In addition to drawing the history of the usage of mathematics in Political science, the thesis brings out some simple simulation models as also the forecasting models based on the fact that the support namely credit deployment depends on the transactions say Defense transactions. Simulation models to find the ramifications of the utility of one individual dissipating the utility of the other formed a part of the thesis.

The science of politics is the oldest of the social sciences but still perhaps the most dependent. It derives much of its methodology from statistics (the science of the state turned into the science of numerical data), from economics and from sociology and it steals much of its substance from anthropology, from history and from law. Yet there is little doubt about the core of the subject. In essence, political science focuses on the ways in which decisions are made by men acting within territorially or functionally defined networks and constellations of organizations. Moreover, the hallmark of the discipline is systematic analysis, whether couched in verbal and literary terms or in the formalized language of statistics or of mathematical logic.

In consideration both to the modernity and complexity of research issues under question, a fleeting glance of almost all the past and the present developments in the field of mathematical models in Political Science with copious quotations from various sources of literature is taken in Chapter one. It bears ample testimony and infallible observatory to the fact that the researcher interested in building Mathematical models in political Science has no dearth in respect of both theme and source.

Chapter two discusses Accentuation-Attrition Models, Adam the greatest, is a tribute to the progenitor who identified the principle of conservation in political science. Following which we apply the model to forecast the growth of a system 'Of Support and Transaction Levels'.

While the penultimate chapter concentrates upon the possibilities of attribution and ascription of time tested function forms, the Final Chapter provides the complete solution for a deterministic probabilistic set of equations for the system under consideration. This however is illustrative and not exhaustive.

Name of the Guide: Dr. Sadananda J.S. Chairman, Department of Political Science, Kuvempu University

D. Litt., in Political Science:

Sole intention and main objective of the thesis is to build a Growth model for the economic/monetary that incorporates not only the economic variables, but also those which has had direct bearing on the IMF conditions. Some of The variables taken in to consideration are:

1. Externally imposed activity to hasten or completion of work in time or ahead of the schedule

2. Levels of Group Interaction inside the Bank detrimental to consummation of work (Number of man hours lost).

3. Responding debits (a parameter for quantum of transaction in response to Originating credits)

4. Originating credits (by the originating branch creditable to the responding branch or the destination branch)

5. Interaction in a group (inside the bank) towards the end of compilation/collation and completion of the work)

6. Unfriendliness (with the customers, recalcitrant staff, and concomitant loss of business)

7. Mobilized cross section of the population coming to the bank and disconcerted by the repugnance of pugnacious staffers.

8. Non- mobilized number of persons in the process of mobilization and who are motivated by the disgruntled mobilized cross section of the group.

9. Income of the bank (Interest on advances, amount received by the Head Office towards the interest on deposits).

10. Tax paid

11. Assimilated number of people who have unassailably understood the banking ethics and axiomatic predications and corresponding deposit/credit lost/gained due to budgetary constraints in publicity after tax payment

12. Non-Assimilated persons who are in the process of Assimilation and the corresponding deposit/credit potential.

13.   Levels of Activity lessened attributable to Non Assimilated number of persons or those in the transitional states.

14.   Friendliness (time consumed thereof and the dent in levels of Business Activity).

15.   Output in the bank, such as deposit mobilization/processual formalities in the sanctioning of a credit proposal etc

16.   Investment (credit to be deployed in time)

17.   Credit (in respect of those units where credit is sanctioned)

18.   Deposit base.

This growth model predicts the values of various variables in question. Why would one predict say one's Income? Primary objective is to take corrective steps to meet any expediency and contingency that might arise.

Towards the consummation of such an avowed objective two things are the essential functional prerequisites.

1. To map the dynamics of the course of the system in particular (in the exemplified case income in particular) Incorporating the various variables in question an atlas is obtained in our case by Duality of motion, which helps to see the positive and negative growth levels, and take rectification steps.

2. Secondly, prediction is done to optimize the concomitant variable (in the above example income-this is done by cutting the expenditure denoted by $-a'$ (TR). On the other hand, to increase the extant income, say by consultancy-term a (SU) constitutes this part). Velocity of the system in general and velocity of the variable in particular is done by the increase in credit deployment levels and dissipation of credit deployment levels without compromising national interests (like demand for reduction in defence expenditure or complete repatriation of the profits earned) or FDI in multi brand retail.

All the objectives mentioned in the foregoing are accomplished throughout the body fabric of the thesis

1.   By the derivation of governing equations of the system under consideration, which remain to be solved at the national level by investigation or by trial and error method by using the atlas of functional forms

2. Duality of motion has the potential objective function, which maps the dynamics of the system. This helps in quarterly reviews and concurrent redressal measure to circumvent the negative variances, Vis-a-Vis budgetary goals.

3. When one talks of negative variances, as is stated here in above, the need for optimization arises. Towards the end of the optimization of the velocity of support, it is necessary to maximize the transactional variable and lessen the unprofitable transactions dependent upon the support function. Fundamental equation governing the problem is

$$\frac{d(S\ )}{d} = a_1(T\ ) - a_1(S\ )$$

Dissipation in velocity is due to the terms and conditions in the memorandum of agreement between the governments to which financial assistance is being provided by International monetary agencies and institutions that provide finance. Now how do we find the value of d/dt (SU) we are dealing with theoretical financial situation, we shall give numerical values to find the velocity of support levels.

Let a_1 = 1 (TR) = 200 million, a_1 = 2 (SU) in dissipation = 50 million.
Let a_1 = 1 (TR) = 200 million, a_1 = 2 (SU) in dissipation = 50 million.

Thus $\frac{d(S\ )}{d} = 1(200) - 2(50)$

$= 200 - 100$

$= 100$ million

This is clearly over simplification. Instead, we proceed to find the values of-
(1) velocity of support
(2) extant support levels
(3) accentuation coefficient
(4) dissipation coefficient
(5) support levels (dissipatory)

by ascription of various input and output (dissipation) variables. Well-known functional forms in economic literature are Cobb-Douglas, Constant Elasticity of Substitution, and constant elasticity of transformation, Diewart functional form and generalized functional form. Generalized functional form failed to give proper result. As per our example, to predict one's income, it is necessary to check income and expenditure every month/quarter, and take up external (allowed) assignments to meet the negative variance.

Control theory, is inextricably linked to the problem mentioned in the foregoing. Functional forms other than those attributed, can be used in the fundamental equation governing the problem. This forms an exhaustive and illustrative net work, another fertile field in itself. We intend to pursue the ramifications of Accentuation-Attrition Models, of Control theory and other aspects.

As for literature survey is concerned, almost all the books that were perused, some of them high abstract mathematics, are given as an exhaustive list at the end, with the intention that work could be prosecuted with greater rigor and tenacity by more knowledgeable scholars.

Name of the Guide: Dr. Sadananda J.S. Chairman, Department of Political Science, Kuvempu University

The following papers forms part of the thesis for which degree has been awarded and yet to be awarded

1. Convection – Dissipation model for the Banking system
2. A disequilibrium model for saving and Investment
3. Income and consumption
4. Investment and Output
5. On Capital goods and wage goods.
6. Implication of tax on consumption
7. Inward remittances and withdrawals in saving accounts
8. Adam, the greatest
9. On Growth of Investment and output
10. On support and integration levels
11. Interest receivables and payables in Banks
12. On Levels of support and economically rewarding transactions
13. A forecasting model for Inter Branch transactions
14. On growth of task related demands directed toward central market institutions and level of regulative decision making
15. Multiple Income function (8 papers)
16. Multiple Deposit function (8 papers)
17. Multiple Demand function (8 papers)
18. Multiple Investment function (8 papers)
19. Multiple Output function (8 papers)
20. Multiple Export function (8 papers)
21. Multiple 'Level of Demand' function (8 papers)
22. Psycho Economics (8 papers)
23. Multiple transaction function (8 papers)

24. Accentuation-attrition models(18 papers)
25. Corroboration-Detrition models (19 papers-concentrates on theorization of Carl Jung and Penrosian studies.)
26. Adventitious-Subtraction models (Consciousness studies-596 papers-This is done under the assumptions that Mind/Consciousness/Self/Individual Consciousness / id /Superego, are all quantified. Research does not enter in to this area although some suggestions are done at concomitant /corresponding   stages. This is the most important assumption made).
27. Debit- Credit model for financial crisis and its aftermath since 2008 as reported in Economic Times(for prediction of variables involved in the crisis-196 papers).We model whatever is reported and is based on available data.(To be submitted for D.Litt. in Economics)

WORK IN PROGRESS

D.sc.,: in Mathematics; University of Mysore, Karnataka-To be registered under the guidance of Prof B S Kiranagi-The thesis title is Green House Effects (Environmental Mathematics/Centralized Planning/Ozone Dissipation, Control and Prediction/Tsunami/Floods/Quakes)

General Theory of Assets And Liabilities: This deals with a forecasting model of the assets and liabilities of the Banks in India, what with its multifarious dissipations to various priority and other corporate sectors. Transactional traffic in Banks and its policing is also dealt with. Like light, Bank also moves in two ways namely in straight line and in the waveform. Theoretical Finance/Mathematical modeling in Banking, Monumental work running to 32690 pages, with special reference to SBI and its subsidiaries. To be submitted for D litt in commerce.

Talcott Parsons – A Mathematical Restatement: Parsons has decisively said that cathetic and cognitive orientation makes human beings resort to actions for either gratification or deprivation. A major mathematical model is built. An optimization problem is solved to optimize gratification without of course causing deprivation to others concentrating on dissipation of cathectic orientation/cognition/perception unfiltered. Mathematical sociology/Latent intents/Manifest Action/Contrast with Karma theory

 Homogeneity, Seperabality, And Its Implications In Finance: This is highly technical project, which deals with the consequences of the functional forms in finance such as corporate finance, small-scale industries, small business finance, etc. Shepard's Lemma and other Von Neumann theories are used to prove theorems, which deal with the information exchange in Banks.

Models are being built on perpetual folding and unfolding of energy through the evolutionary process in any system (including human body). Constitution of space and time, plurality of motion of consciousness and body energy and its concomitant effects in space and time, maintenance of psychological transactions on par with the balance of payments ledgers and predicting the existence of negative energy are studied. Such a model as is mentioned in the fore going could be used to arrest inharmonious development of negative energy levels (which is assumed to be dependent on the financial transactions) by taking necessary corrective steps. Foregoing work closely follows the methodologies used in banking, finance, and does not take in to consideration the perceived deprivation as against the scientifically determined deprivation or for that matter gratification. Perception is based on Gratification, Deprivation complex, and Penrosian global world, mental world, and Platonic world. An alternative theory for nature of space and time is proposed. Connections between Mertonian latent intents and manifested actions and volition, congnition, identification, experience are also explored, based on the background assumption that association of thought or consciousness with the physical entity contaminates the thought and hence illusion sets in by environmental decoherence. Vacuum studies like, "Something called Nothing" by some Russian authors and Stephen Hawking's Black hole radiation studies, and nature of space and time, has provided food for thought for such studies. Questions on, the Dark matter, Energy origin, and the Origin of universe, Astrophysics, Structure of space and time, Quantum Mechanics, Mathematical appraisal of Penrosian theory of Platonic world and David Baum's theory of Quantum physics, positive energy levels versus negative energy levels, past-present-future triumvirate, are discussed. Temperature variations at various atmospheric levels and effects on supergravity are studied. Reconciliation between Vedic ideas of illusion and the Penrosian platonic work are highlighted

Augmentation - Dissipation models are built to study thirteenth finance commission report and eleventh five-year plan. All these contain iterative and very highly nonlinear equations. Concept of entropy, enthalpy are used in finance, while nonlinear studies of erratic behavior in Sensex, Equity, Debt are analyzed.

Absolution-Attrition models are used to study tsunami and flood equations. Under the head of consciousness studies, Spectrum of Consciousness and doctrine of vibration are theorized. Bach, Kant, Goldman theories are also pursued rigorously for mathematical tenacity and gusto. Anagroisisation-dissipation models are used to study theories of Deluze, Lester, Ken Wilber, Bach.

Rational theory and control in finance deals with the emerging paradigm of black money and tries to question the earlier Newtonian view of mechanistic and predictability. It also suggests that the knowledge acquisitions by the natural sciences are the result of a focus on simple systems that function in orderly and consistent manner. Uncertainty in behavioral science has generated great deal of disorder and disequilibrium in the transactional traffic. Re engineering studies to lessen such sort of entropy and disorder, are suggested.

Studies on nonlinearity, instability, uncertainty in the non-linear realm of psychology, subjectivity, mathematicization of Carl Jung's theories are done psychological, sociological systems are temporal systems that stresses the potential value of changing relationship.

Husserl's concept of transcendental ego/ Satre's rejection of the primacy of the Cartesian cogito are documented. Satre objects to the Descartes, saying that Descartes has confused spontaneous doubt, which is consciousness with methodological doubt. Satre, says that very nature of consciousness such that for consciousness to be and to know itself are one and the same. The theories of the reflection cogito and non-positional self-consciousness flux, of consciousness constituting itself, as the unity of itself is the object pole according to satre. Satre lays down two fundamental principles concerning pre reflective consciousness, which are, basic of Being and Nothingness. An attempt is made to postulate and axiomatise these mathematically.

There is certain structure in finance, which has extraordinary trajectories of growth. Remaining within the bounded domain, the volume and back folding produces non-linear trajectories of finance. This structure can be compared to Holmes work. We give a predictive model and an optimization problem with a fractal narrative.
Social sciences have long tried to emulate the methodologies, procedures, and results of physical sciences. The laws of economic determinism of Marx are illustrative. Largely, the science of international financial relations has not been successful in this emulation. In addition, nations are composed of multitudes of individually complex variables i.e. behavioral orientation, attitudinal pattern cannot follow simple functional forms.an attempt is made towards the prediction of unpredictability and new paradigm in dynamical systems to the stability of international finance is attempted.

Macroeconomic models not consistent with rational expectations have been developed depending on non linear population dynamics (Stutzer 1982,Day 1982).Our study concentrates upon utility effects and non linear dynamics of finance.

Information dissemination/delineation/spread in finance: Many a time disinformation has pernicious consequences and needs to be insulated. Such disinformation insulation scheme has been studied making use of techniques and tools of Murray and Seward 1992.

In finance, debt acts as a powerful instrument. Moorcroft (1999) points out several advantages of combination of theoretical and empirical studies. Time independent is also studied. A prediction model is built based on time evolution of the solutions in finance.

Gowan (1977) deduced the specific form of the visuo cortical transformation from psychological measurements. Concatenation of the equations with those of Schrodinger's equations leads to new objective reality and environmental decoherence is attributed/ascribed to change in objective reality. Ermentround-1979 results are used in building up the visual noncoordination of brain mechanism underlying visual patterns.

Soddy-1922, 1945 Lotka are first who spoke of the possibilities of entropy to sociology. Richard Adam argued well about energy and its structure. There are applications in finance and thermodynamics and we show how financial quantities can characterize the state of system in equilibrium. Some of the work used are Maxwell's equations, Gibbs Deuhem relationship. Assuming that financial utility can be measured an operational definition is attempted.

Yegoro/Arthur postulated –increasing returns and path dependency in the economy. Aruka proposed an evolutionary theory of economic interaction and spoke of potentially fruitful dimensions of social sciences research based on respective and concomitant principles of physics. We draw some analogies of phase transition between different financial regimes in the era of globalization, international mergers and acquisition.

In thermodynamics on one form, differential geometry we show under the axiom that they are mathematical representations of the same principles. Classical thermodynamics and Hamiltonian dynamics are shown to be different mathematical representations of the same unifying principle, namely the use of a single one form defined as an extended phase ,space leads by differential geometric analysis to a set of characteristic differential equations, which describe transformation of physical system. An abstraction –dissipation model and optimization problem is built-up and solved in the case of derivatives of irreversibility in classical thermodynamics from Hamiltonian dynamics.
 Edge worth studied:

A.   Possibility of mathematical reasoning to illustrate the quantity of pleasure –principle: Explanation of a spatial pattern of transactions has to be

the major focus of location theory in finance. Attention for a spatial structure perse could be broadened by taking into account the configuration of spatial process of transactions. Spatial interaction helps in the dispersion and coherence of transcationalites in a spatial system.

B.   Utilitarian and Egoistical, principles of ethics and economics: We attempt to illustrate that the same principle in the financial arena and Jevon's pleasure principle is used to adduce the idea. Continually an Acceleration- Distillation model is used for prediction purposes. A possible Prediction Flow Matrix is used.

Ecological Energy analysis is done based on economics, finance and thermodynamics. Exergetic costs focuses in a rigorous and detailed way on the process of cost formation, imposing a rationale on one of the most important problems of the techniques for calculating costs, which is that of costs allocations in bifurcations. We attempt to build an abstraction-reduction model for the foregoing energy ecological analysis.

Small open finance model provides a better fit for inflation/ output/ interest rates and real exchange rates. Seminal contribution of Osteld and Rogoff has engendered large literature on Dynamic Stochastic General Equilibrium models. Paper analyses bank rate fixation on the lines under scored by Kehoe and Mcgratten. Corroboration –Contrition models are presented while analyzing the procedure of the construction of the differential equations based on linear relation between credit and profit. At the same time the methods from the arsenal of the means of linear theory are used in representative modeling of macro financial process

In the development of characteristic differential equations, the method used historically is the application of the Euler reciprocity relation to exact differentials'. More recently, Shultz has derived Maxwell's relations through application of differential geometry to exact differentials and by Tiermann and Burke through application of differential geometry to one form called Gibbs one form. We apply these concepts to finance, especially corporate finance and policy studies and contrast notes ON THE OPERATIONAL MODE.

Time and symmetry in models of the financial markets are constructed. An Absolution –Attrition model for monetary policy in a multi sector economy is discussed. Concomitant optimization problem is studied. An Adventitious-Dissipation model for financial engineering is suggested with reference to the foregoing. Financial sector modeling with a global perspective is under taken. An estimation model of DGSE model is done with assumed figures. External shocks to Indian financial sector are analyzed. A financial analysis is made of the Wagner's law. Some contributions to Financiometric analysis have been made.

Nonlinear models, Dynamic models, DGSE models, J curve hypothesis, SIGMA hypothesis ND agency theory, Negative Externalities and its applications to finance. A common argument is that micro foundation of the model and the separation of deep structural parameters i.e. parameters for preferences, technology or those describing aggregate shocks are necessary for fulfillment of robustness and thrust in financial engineering.

Between logical genesis and the ontological genesis, there is no parallelism. There is rather a relay, which permits every sort of shifting and jamming. It is also true that the relation of denotation may only be established in a world, which is subject to various aspects of individuation, but this is not sufficient. Besides continuity, denotation requires that an identity be posited and made dependent upon the manifest order of the person. This is what one indicates when we say denotation presupposes manifestation. Conversely, when the person is manifested or expressed in the proposition, this does not occur independently of individuals, states of affairs, or states of bodies, which not content with being denoted, form so many concepts in relation to person's desires, beliefs and constitutive projects. In addition, signification presupposes the formation of a good sense, which comes about with individuation, just as the formation of a commonsense find its source in the person. It implicates an entire play of denotation and manifestation, both in the power to affirm premises, and in the power to state the conclusion. There is therefore, a very complex structure in view of which each of the three relations of the logical proposition in general is in turn primary. This structure as a whole forms a tertiary arrangement of language. In amplification, this is produced by both logical genesis and ontological genesis. A model is suggested interlinking the above concepts, which essentially involves statement like 'From Brahman we came and Aham Brahmasmi'. A constantanian solution is provided under the assumption that Consciousness/ Senses/ Being/ Nonbeing / Self/ Nonself/ Unconsciousness can be quantified.

IFRS reporting by Bruce Mckenzie et al, is Mathematicised. Kellogg on management is reappraised with functional forms.

An Adscititious —Dissipation model incorporating the following entities leads to prediction/Optimization and disequilibrium mechanical studies of the constituents.

The Entities: Three-dimensional gravity ,Societal Rigidity, The physics of inflation, Stability and instability in economic growth, Time structure and fluctuations, Synergy and self-organization in the evolution of complex systems, Conspicuous consumption, Inconspicuous leisure, The genuine saving criterion, Value of population in an economy, Endogenous population changes,

The theory of discrimination, The complex information process, Entropy generation and human aging, Entropy its implication to behavioral finance, Physical methodology for economic systems modeling, Momentum theorem and the momentum of money, Physics of finance, Chaos of economics, National income economic structure, Environmental externalities, Political economy of hatred, Capital economics, Financial capital, Human capital, Social capital, Foreign direct investment, Equity (finance), Credit (finance), Debits and credits, Degrees of freedom (statistics), Degrees of freedom (physics and chemistry), Degrees of freedom (mechanics), Systemic Controllability, Gross domestic product, Gross national product, Gross domestic income, Consumption,(economics), Crowding out (economics), Supply and demand, Structural functionalism (Talcot Parsons), Socialization, Demand for money, Identity crisis (psychology), Maslow's hierarchy of needs, Self –actualization, Law of the instrument, Peak experience, Initial value problem, Differential inclusion, Holder condition, Convex conjugate, Canonical transformation, Young's inequality, Free entropy, Vector, Vector space, Euclidean vector, Vector (biology), Vector (epidemiology), Vector (molecular biology),Self-interest, Altruism, Incentives & agency theory, Integrity, Hedonism vs. nihilism, Measurement of utility or welfare, Collective interest vs. individual interest, Core inflation measures , Money, Money supply, Money creation, Monetary policy, Credit channel, Core inflation, Inflation, Interest, Natural rate of unemployment (Monetarism) ,Wave –particle duality, Oceanography, Earth, Sea, ice, Climate interface , Carbon cycle, Human impact on the environment, Atmospheric wave Dissipation, Sea surface temperature, Atmosphere of Earth Terrain, Carbon dioxide, Greenhouse gases, Chemical species, Ocean current ,Greenhouse effect etc

GENERAL:

I have over twenty-six years of experience as a professional Banker and a researcher and was working with State Bank of Mysore, Bhadravathi, Karnataka, with its principal place of business at Bangalore. I joined State Bank of Mysore, Bhadravathi branch, on 19-07-1975. I took VR from the bank on 31-03-2001.

I have extensive work experience in Bookkeeping, Bill market scheme, Foreign Exchange, Statistics, Reconciliation, Daybook accounts, corporate finance. As far academics are concerned, I am at ease with in all subjects ranging from Ecology to Economics, Political science to Astrophysics, Computer science to Sociology. Presently am working on a monumental work on General Theory of assets and liabilities and Asset maximization problem. Possess excellent oral and communication skills. Given no financial constraints I could have done/capable of doing 20 times the work mentioned in CV.

An anthology of poems 'In-excited reveries' is being brought out. Two semi fictional autobiographical sketches 'Dialogue with the conflicting Self' and 'In the Order of Anti Brahman' are ready for typing. These books do not differentiate between Prose, Poetry, Physics, Chemistry, mathematics or other subjects. They are written in a style a la solecism with soul acting as counsellor, advisor, questioner and victim. Highly motivated by operational ideas, the books depict the conflicts of the modern man in contemporaneous society with all its pressures and pulls.

Integration of Natural and Social Sciences, by interdisciplinary research and its ramifications on the environment, be it Business, Economics, Scientific, Technological, Physical, Social, Political is one of the factors of my terrafirma. In addition to working in such fields like Physics, Cosmology, Finance, Economics, Political science, Sociology, Mathematics, Environmental science, I am also interested in Particle physics, Quantum mechanics and some fundamental theories expounded by Einstein, Dirac, and Fermi, Max Planck, Schrodinger, Heisenberg.

On the finance side, I am working on financial crisis/investment banking and other topics. Consciousness studies done are taken to be true at their face value and corresponding models are built. Some non-technical books by Alan Guth (Inflationary Universe)/Penrose (Shadows of Mind & Emperor's mind)/Hawking are being Mathematicised.

References:

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