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Electromagnetic Emission and Nucleosynthesis from Neutron Star Binary Mergers
Gravitational Waves from Single Neutron Stars: An Advanced Detector Era Survey
Universal Relations and Alternative Gravity Theories
Aspects of Quantum Chaos Inside Black Holes
A Quantum Cosmic Conjecture
Magnetism in Binary Stars
Theoretical Prerequisites
AM Hercules Stars
AM Her Stars: Inductive Magnetic Coupling
AM Her Stars: Stream Channelling and the Accretion Torque
AM Her Stars: The Attainment of Synchronism
Binaries with Partial Accretion Discs
Disc Disruption and Accretion Curtains
Disrupted Discs: Stellar Spin Evolution
Intrinsic Magnetism in Accretion Discs
Stellar Magnetic Fields
Accretion Disc Magnetic Winds
Mesoscopic Modelling of Strain Glass
Hilbert Spaces
Functions of a Complex Variable
Fourier and Laplace Transforms. Distributions
Lagrange equations
Hamilton equations
Small oscillations
Kinetic Energy Density Functionals from Models for the One-Electron Reduced Density Matrix
Energy Density Functional Theory in Atomic and Nuclear Physics
Topological Effects and Critical Phenomena in the Three-Dimensional (3D) Ising Model
Spacetime as a Quantum Many-Body System
Time-Resolved Electrostatic and Kelvin Probe Force Microscopy
Precise Modeling of Electrostatic Interactions with Dielectric Samples in Kelvin Probe Force Microscopy
Quantitative Analysis of Kelvin Probe Force Microscopy on Semiconductors
Polarization Control by Deep Ultra Violet Wire Grid Polarizers
Gravitational Physics: From Quantum to Waves
Scale Invariance
Algebraic structures on the moduli spaces in gauge theories
On supersymmetric eigenvectors of the 5D discrete Fourier transform
Immanants of unitary matrices and their submatrices
On completeness of coherent states in noncommutative spaces with the generalised uncertainty principle
Majorana neutrinos in an effective field theory approach
Feynman-Dyson propagators for neutral particles (local or non-local?)
Generalized equations and their solutions in the $(S,0) \times (0,S)$ representations of the Lorentz group
Troubles with the radiation reaction in electrodynamics
Gravitational 'seesaw' and light bending in higher-derivative gravity
The zeta function approach applied to Casimir effects in a stack of conductive planes
The Schrödinger equation in rotating frames by using the stochastic variational method
Perturbation of the Malliavin Calculus of Bismut type for a large order on a Lie group
Shift operators and recurrence relations for individual Lamé polynomials
Shift operators and recurrence relations for Legendre polynomials with noninteger associativity and definite parity
On completeness of Bethe Ansatz solutions for $sl(2)$ Richardson-Gaudin systems
Two-dimensional massless light-front fields and conformal field theory
Massive Dirac field in 3D and induced equations for higher spin fields
Current algebra for a generalized two-sites Bose-Hubbard model
The role of 'escort fields' in the relation between massless and massive vector (tensor) mesons
The sinh-Gordon defect matrix generalized for n defects
Higher-genus amplitudes and resurgence in SUSY double-well matrix model for 2D IIA superstrings
3D Higher spin gravity and the fractional quantum Hall effect
The 'odd' Gelfand-Zetlin basis for representations of general linear Lie superalgebras
A triality between weak mutually unbiased bases, zeros of their analytic representations, and finite geometries
A classical calculation of the W-boson magnetic moment
Relativistic deformation of Helmholtz wavefields
Triangulated Surfaces and Polyhedral Structures
Singular Euclidean Structures and Riemann Surfaces
The Quantum Geometry of Polyhedral Surfaces: Non-linear σ Model and Ricci Flow
An Introduction to Nichols Algebras
Operational Symmetries : Basic Operations in Physics
Lectures on Hyperhamiltonian Dynamics and Physical Applications
Linear Response Theory : An Analytic-Algebraic Approach
Probability and Statistics for Particle Physics

Vicente Cortés; Alexander S. Haupt
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Klaas Landsman
John G. Yates; Paola Lettieri
Miguel Onorato; Fabio Baronio; Matteo Conforti; Amin Chabchoub; Pierre Suret; Stephane Randoux
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Mathematical Methods of Classical Physics
Stability and Suppression of Turbulence in Relaxing Molecular Gas Flows
Foundations of Quantum Theory : From Classical Concepts to Operator Algebras
Catalytic Processes
Hydrodynamic and Optical Waves: A Common Approach for Unidimensional Propagation
Integrable Turbulence with Nonlinear Random Optical Waves
Trajectories of Water and Sand Jets
Causal Propagation of Heat and Thermohaline Instability in Quasi-static Phenomena
Space, Time and Motion
Rigid Bodies
Extended Systems
Relativity
Gravitation
Dynamics of a Material Point
Relative Motions
The Forces
Microscopic Computer Simulation of Fluids
Fully Developed Turbulence
Turbulence and Stochastic Processes
Reaction-Diffusion Systems: Front Propagation and Spatial Structures
Irreversibility and the Foundations of Quantum Mechanics
Dynamics and Thermodynamics of Systems with Long-Range Interactions: An Introduction
Bayes, Boltzmann and Bohm: Probabilities in Physics