

1. Record Nr.	UNINA9910449895203321
Titolo	Gravitation and cosmology [[electronic resource]] : from the Hubble radius to the Planck scale : proceedings of a symposium in honour of the 80th birthday of Jean-Pierre Vigi�r / / edited by Richard L. Amoroso ... [et al.]
Pubbl/distr/stampa	Dordrecht ; ; Boston, : Kluwer Academic Publishers, c2002
ISBN	0-306-48052-2 9786610618477 1-280-61847-7
Edizione	[1st ed. 2002.]
Descrizione fisica	1 online resource (XVII, 540 p. 43 illus.)
Collana	Fundamental theories of physics ; ; v. 126
Altri autori (Persone)	VigierJean-Pierre <1920-> AmorosoRichard L
Disciplina	530
Soggetti	Cosmology Astrophysics Gravitation Quantum theory Electromagnetic theory Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Astrophysics & Cosmology -- From the Cosmological Term to the Planck Constant -- Creation of Matter and Anomalous Redshifts -- The Origin of CMBR as Intrinsic Blackbody Cavity-QED Resonance Inherent in the Dynamics of the Continuous State Topology of the Dirac Vacuum -- Some New Results in Theoretical Cosmology -- Whitehead Meets Feynman and the Big Bang -- Developing the Cosmology of A Continuous State Universe -- The Problem of Observation in Cosmology and the Big Bang -- Absorber Theory of Radiation in Expanding Universes -- Bohm & Vigier: Ideas as A Basis for A Fractal Universe -- A Random Walk in A Flat Universe -- Multiple Scattering Theory in Wolf's Mechanism and Implications in QSO Redshift -- Connections Between Thermodynamics, Statostocal Mechanics, Quantum Mechanics, and Special Astrophysical Processes -- Extended

Electromagnetic Theory -- New Developments in Electromagnetic Field Theory -- Comparison of Near and Far Field Double-Slit Interferometry for Dispersion of the Photon Wavepacket -- Photon Diameter Measurements -- What is the Evans-Vigier Field? -- Non-Abelian Gauge Groups for Real and Complex Amended Maxwell's Equations -- Experimental Evidence of Near-Field Superluminally Propagating Electromagnetic Fields -- The Photon Spin and other Topological Features of Classical Electromagnetism -- The Process of Photon Emission from Atomic Hydrogen -- Holographic Mind - Overview: The Integration of Seer, Seeing, and Seen -- Photons from the Future -- Gravitation Theory -- Can one Unify Gravity and Electromagnetic Fields? -- The Dipolar Zero-Modes of Einstein Action -- Theoretical and Experimental Progress on the Gem (Gravity-Electro-Magnetism) Theory of Field Unification -- Can Gravity be Included in Grand Unification? -- Gravitational Energy-Momentum in the Tetrad and Quadratic Spinor Representations of General Relativity -- Spinors in Affine Theory of Gravity -- A New Approach to Quantum Gravity -- Multidimensional Gravity and Cosmology and Problems of G -- Quantum Gravity Operators and Nascent Cosmologies -- Ravitational Magnetism: An Update -- Quantum Theory -- Quantum Hall Enigmas -- On The Possible Existence of Tight Bound States in Quantum Mechanics -- A Chaotic-Stochastic Model of an Atom -- Synchronization Versus Simultaneity Relations, with Implications for Interpretations of Quantum Measurements -- Can Non-Local Interferometry Experiments Reveal A Local Model of Matter? -- Beyond Heisenberg's Uncertainty Limits -- Towards A Classical Re-Interpretation of the Schrodinger Equation According to Stochastic Electrodynamics -- The Philosophy of the Trajectory Representation of Quantum Mechanics -- Some Physical and Philosophical Problems of Causality in the Interpretation of Quantum Mechanics -- The Force c^4/G , the Power c^5/G and the Basic Equations of Quantum Mechanics -- Progress in Post-Quantum Physics and Unified Field Theory -- Vacuum Dynamics & Spacetime -- Polarizable-Vacuum Approach to General Relativity -- The Inertia Reaction Force and Its Vacuum Origin -- Engineering the Vacuum -- The Photon as a Charge-Neutral and Mass-Neutral Composite Particle -- Pregeometry Via Uniform Spaces -- A Zpf-Mediated Cosmological Origin of Electron Inertia -- Vacuum Radiation, Entropy and the Arrow Of Time -- Quaternions, Torsion and the Physical Vacuum: Theories of M. Sachs and G. Shipov Compared -- Homoloidal Webs, Space Cremona Transformations and the Dimensionality and Signature of Macro-Spacetime -- Pulse Interaction in Nonlinear Vacuum Electrodynamics -- Proposal for Teleportation by Help of Vacuum Holes -- Cosmology, the Quantum Universe, and Electron Spin -- On Some Implications of the Local Theory Th(?) and of Popper's Experiment.

Sommario/riassunto

Jean-Pierre Vigier continually labeled one of les heretiques de la science, l'eternel resistant et le patriarche is yet a pillar of modern physics and mathematics, with one leg firmly planted in theory and the other in empiricism spanning a career of nearly 60 years with a publication vitae quickly approaching 400! He wrote of his mentor Louis de Broglie "Great physicists fight great battles", which perhaps applies even more so to 1 Jean-Pierre Vigier himself . If fortune allows a visit to Paris, reported to be the city of love, and certainly one of the most beautiful and interesting cities in the world; one has been treated to a visual and cultural feast. For example a leisurely stroll from the Musee du Louvre along the Champs-Elysees to the Arc de Triomphe would instill even the least creative soul with the entelechies of a poets muse. It is perhaps open to theoretical interpretation, but if causal conditions have allowed one to be a physicist, visiting Paris, one may

have taken opportunity to visit the portion of the old Latin quarter in place Jussieu where Pierre et Marie Curie Universite, reported to be 'the best university in France', is stationed.
