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CANONICAL QUANTUM GRAVITY

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Canonical Quantum Gravity Fundamentals And Recent Developments

**Prafulla Kumar Behera, Vipin
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Sinha**

Canonical Quantum Gravity Fundamentals And Recent Developments:

Canonical Quantum Gravity: Fundamentals And Recent Developments Francesco Cianfrani, Orchidea Maria Lecian, Matteo Lulli, Giovanni Montani, 2014-05-21 This book aims to present a pedagogical and self consistent treatment of the canonical approach to Quantum Gravity starting from its original formulation to the most recent developments in the field We start with an innovative and enlightening introduction to the formalism and concepts on which General Relativity has been built giving all the information necessary in the later analysis A brief sketch of the Standard Cosmological Model describing the Universe evolution is also given alongside the analysis of the inflationary mechanism After deepening the fundamental properties of constrained dynamic systems the Lagrangian approach to the Einsteinian Theory is presented in some detail underlining the parallelism with non Abelian gauge theories Then the basic concepts of the canonical approach to Quantum Mechanics are provided focusing on all those formulations which are relevant for the Canonical Quantum Gravity problem The Hamiltonian formulation of General Relativity and its constrained structure is then analyzed by comparing different formulations The resulting quantum dynamics described by the Wheeler DeWitt equation is fully discussed in order to outline its merits and limits Afterwards the reformulation of Canonical Quantum Gravity in terms of the Ashtekar Barbero Immirzi variables is faced by a detailed discussion of the resulting Loop Quantum Gravity Theory Finally we provide a consistent picture of canonical Quantum Cosmology by facing the main features of the Wheeler DeWitt equation for the homogeneous Bianchi models and then by a detailed treatment of Loop Quantum Cosmology including very recent developments

Ninth Marcel Grossmann Meeting, The: On Recent Developments In Theoretical And Experimental General Relativity, Gravitation & Relativistic Field Theories (In 3 Volumes) - Procs Of The Mgix Mm Meeting Vahe G Gurzadyan, Robert T Jantzen, Remo Ruffini, 2002-12-12 In 1975 the Marcel Grossmann Meetings were established by Remo Ruffini and Abdus Salam to provide a forum for discussion of recent advances in gravitation general relativity and relativistic field theories In these meetings which are held once every three years every aspect of research is emphasized mathematical foundations physical predictions and numerical and experimental investigations The major objective of these meetings is to facilitate exchange among scientists so as to deepen our understanding of the structure of space time and to review the status of both the ground based and the space based experiments aimed at testing the theory of gravitation The Marcel Grossmann Meetings have grown under the guidance of an International Organizing Committee and a large International Coordinating Committee The first two meetings MG1 and MG2 were held in Trieste 1975 1979 A most memorable MG3 1982 was held in Shanghai and represented the first truly international scientific meeting in China after the so called Cultural Revolution Three years later MG4 was held in Rome 1985 It was at MG4 that astroparticle physics was born MGIXMM was organized by the International Organizing Committee composed of D Blair Y Choquet Bruhat D Christodoulou T Damour J Ehlers F Everitt Fang Li Zhi S Hawking Y Ne eman R Ruffini chair H Sato R Sunyaev and S

Weinberg Essential to the organization was an International Coordinating Committee of 135 members from scientific institutions of 54 countries MGIXMM was attended by 997 scientists of 69 nationalities It took place on 28 July 2000 at the University of Rome Italy The scientific programs included 60 plenary and review talks as well as talks in 88 parallel sessions The three volumes of the proceedings of MGIXMM present a rather authoritative view of relativistic astrophysics which is becoming one of the priorities in scientific endeavour The papers appearing in these volumes cover all aspects of gravitation from mathematical issues to recent observations and experiments Their intention is to give a complete picture of our current understanding of gravitational theory at the turn of the millennium The Marcel Grossmann Individual Awards for this meeting were presented to Cecile and Bryce DeWitt Riccardo Giacconi and Roger Penrose while the Institutional Award went to the Solvay Institute accepted on behalf of the Institute by Jacques Solvay and Ilya Prigogine The acceptance speeches are also included in the proceedings

Primordial Cosmology Giovanni Montani, 2011 Primordial Cosmology deals with one of the most puzzling and fascinating topics debated in modern physics the nature of the Big Bang singularity The authors provide a self consistent and complete treatment of the very early Universe dynamics passing through a concise discussion of the Standard Cosmological Model a precise characterization of the role played by the theory of inflation up to a detailed analysis of the anisotropic and inhomogeneous cosmological models The most peculiar feature of this book is its uniqueness in treating advanced topics of quantum cosmology with a well traced link to more canonical and pedagogical notions of fundamental cosmology This book traces clearly the backward temporal evolution of the Universe starting with the Robertson-Walker geometry and ending with the recent results of loop quantum cosmology in view of the Big Bounce The reader is accompanied in this journey by an initial technical presentation which thanks to the fundamental tools given earlier in the book never seems heavy or obscure

XXIII DAE High Energy Physics Symposium Prafulla Kumar Behera, Vipin Bhatnagar, Prashant Shukla, Rahul Sinha, 2021-05-18 This volume presents the peer reviewed proceedings of the XXIII DAE BRNS High Energy Physics Symposium 2018 which was held at the Indian Institute of Technology Madras India on 10-15 December 2018 Gathering selected contributions the book highlights the latest developments and research trends in physics detectors and instrumentation relevant to all branches of particle physics astroparticle physics and closely related fields The major topics covered include Standard Model physics beyond Standard Model physics neutrino physics cosmology formal theory heavy ion physics quantum chromodynamics QCD particle detectors and future experiments Given the range of topics discussed the book will be useful for beginners as well as advanced researchers in the field

Sixth Marcel Grossmann Meeting, The: On Recent Developments In Theoretical And Experimental General Relativity, Gravitation And Relativistic Field Theories (In 2 Volumes) Humitaka Sato, 1993-01-08 The Marcel Grossmann Meetings have been conceived with the aim of reviewing recent advances in gravitation and general relativity with particular emphasis on mathematical foundations and physical predictions The overall programme includes the broad categories of mathematical techniques

cosmology quantum gravity astrophysics gravitational radiation and experimental developments The proceedings contain invited and contributed papers **Tenth Marcel Grossmann Meeting, The: On Recent Developments In Theoretical & Experimental General Relativity, Gravitation, & Relativistic Field Theories (In 3 Vols) - Procs Of The Mgio Meeting Held At Brazilian Ctr For Res In Phys (Cbpf)** Mario Novello, Santiago Perez Bergliaffa, Remo Ruffini, 2006-02-17 The Marcel Grossmann meetings were conceived to promote theoretical understanding in the fields of physics mathematics astronomy and astrophysics and to direct future technological observational and experimental efforts They review recent developments in gravitation and general relativity with major emphasis on mathematical foundations and physical predictions Their main objective is to bring together scientists from diverse backgrounds and their range of topics is broad from more abstract classical theory and quantum gravity and strings to more concrete relativistic astrophysics observations and modeling This Tenth Marcel Grossmann Meeting was organized by an international committee composed of D Blair Y Choquet Bruhat D Christodoulou T Damour J Ehlers F Everitt Fang Li Zhi S Hawking Y Ne eman R Ruffini chair H Sato R Sunyaev and S Weinberg and backed by an international coordinating committee of about 135 members from scientific institutions representing 54 countries The scientific program included 29 morning plenary talks during 6 days and 57 parallel sessions over five afternoons during which roughly 500 papers were presented These three volumes of the proceedings of MG10 give a broad view of all aspects of gravitation from mathematical issues to recent observations and experiments

Thirteenth Marcel Grossmann Meeting, The: On Recent Developments In Theoretical And Experimental General Relativity, Astrophysics And Relativistic Field Theories - Proceedings Of The Mg13 Meeting On General Relativity (In 3 Volumes) Remo Ruffini, Kjell Rosquist, Robert T Jantzen, 2015-01-26 The Marcel Grossmann Meetings seek to further the development of the foundations and applications of Einstein's general relativity by promoting theoretical understanding in the relevant fields of physics mathematics astronomy and astrophysics and to direct future technological observational and experimental efforts The meetings discuss recent developments in classical and quantum aspects of gravity and in cosmology and relativistic astrophysics with major emphasis on mathematical foundations and physical predictions having the main objective of gathering scientists from diverse backgrounds for deepening our understanding of spacetime structure and reviewing the current state of the art in the theory observations and experiments pertinent to relativistic gravitation The range of topics is broad going from the more abstract classical theory quantum gravity branes and strings to more concrete relativistic astrophysics observations and modeling The three volumes of the proceedings of MG13 give a broad view of all aspects of gravitational physics and astrophysics from mathematical issues to recent observations and experiments The scientific program of the meeting included 33 morning plenary talks during 6 days and 75 parallel sessions over 4 afternoons Volume A contains plenary and review talks ranging from the mathematical foundations of classical and quantum gravitational theories including recent developments in string brane theories to precision tests of general relativity

including progress towards the detection of gravitational waves and from supernova cosmology to relativistic astrophysics including such topics as gamma ray bursts black hole physics both in our galaxy and in active galactic nuclei in other galaxies and neutron star and pulsar astrophysics Volumes B and C include parallel sessions which touch on dark matter neutrinos X ray sources astrophysical black holes neutron stars binary systems radiative transfer accretion disks quasars gamma ray bursts supernovas alternative gravitational theories perturbations of collapsed objects analog models black hole thermodynamics numerical relativity gravitational lensing large scale structure observational cosmology early universe models and cosmic microwave background anisotropies inhomogeneous cosmology inflation global structure singularities chaos Einstein Maxwell systems wormholes exact solutions of Einstein's equations gravitational waves gravitational wave detectors and data analysis precision gravitational measurements quantum gravity and loop quantum gravity quantum cosmology strings and branes self gravitating systems gamma ray astronomy and cosmic rays and the history of general relativity

The Structural Foundations of Quantum Gravity Dean Rickles, Steven French, Juha T. Saatsi, 2006-11-16 What is spacetime General relativity and quantum field theory answer this question in different ways This collection of essays looks at the problem of uniting these two fundamental theories of our world focusing on the nature of space and time within this quantum framework

Towards Quantum Gravity Jerzy Kowalski-Glikman, 2008-01-11 The aim of this book is to give graduate students an overview of quantum gravity but it also covers related topics from astrophysics Some well written contributions can serve as an introduction into basic conceptual concepts like time in quantum gravity or the emergence of a classical world from quantum cosmology This makes the volume attractive to philosophers of science too Other topics are black holes gravitational waves and non commutative extensions of physical theories

Epistemology of Experimental Gravity - Scientific Rationality Nicolae Sfetcu, 2019 The evolution of gravitational tests from an epistemological perspective framed in the concept of rational reconstruction of Imre Lakatos based on his methodology of research programmes Unlike other works on the same subject the evaluated period is very extensive starting with Newton's natural philosophy and up to the quantum gravity theories of today In order to explain in a more rational way the complex evolution of the gravity concept of the last century I propose a natural extension of the methodology of the research programmes of Lakatos that I then use during the paper I believe that this approach offers a new perspective on how evolved over time the concept of gravity and the methods of testing each theory of gravity through observations and experiments I argue based on the methodology of the research programmes and the studies of scientists and philosophers that the current theories of quantum gravity are degenerative due to the lack of experimental evidence over a long period of time and of self immunization against the possibility of falsification Moreover a methodological current is being developed that assigns a secondary unimportant role to verification through observations and or experiments For this reason it will not be possible to have a complete theory of quantum gravity in its current form which to include to the limit the general relativity since

physical theories have always been adjusted during their evolution based on observational or experimental tests and verified by the predictions made. Also contrary to a widespread opinion and current active programs regarding the unification of all the fundamental forces of physics in a single final theory based on string theory I argue that this unification is generally unlikely and it is not possible anyway for a unification to be developed based on current theories of quantum gravity including string theory. In addition I support the views of some scientists and philosophers that currently too much resources are being consumed on the idea of developing quantum gravity theories and in particular string theory to include general relativity and to unify gravity with other forces as long as science does not impose such research programs.

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Fourteenth Marcel Grossmann Meeting, The: On Recent Developments In Theoretical And Experimental General Relativity, Astrophysics, And Relativistic Field Theories - Proceedings Of The Mg14 Meeting On General Relativity (In 4 Parts) Massimo Bianchi, Robert T Jantzen, Remo Ruffini, 2017-10-13

The four volumes of the proceedings of MG14 give a broad view of all aspects of gravitational physics and astrophysics from mathematical issues to recent observations and experiments. The scientific program of the meeting included 35 morning plenary talks over 6 days, 6 evening popular talks and 100 parallel sessions on 84 topics over 4 afternoons. Volume A contains plenary and review talks ranging from the mathematical foundations of classical and quantum gravitational theories including recent developments in string theory to precision tests of general relativity including progress towards the detection of gravitational waves and from

supernova cosmology to relativistic astrophysics including topics such as gamma ray bursts black hole physics both in our galaxy and in active galactic nuclei in other galaxies and neutron star pulsar and white dwarf astrophysics The remaining volumes include parallel sessions which touch on dark matter neutrinos X ray sources astrophysical black holes neutron stars white dwarfs binary systems radiative transfer accretion disks quasars gamma ray bursts supernovas alternative gravitational theories perturbations of collapsed objects analog models black hole thermodynamics numerical relativity gravitational lensing large scale structure observational cosmology early universe models and cosmic microwave background anisotropies inhomogeneous cosmology inflation global structure singularities chaos Einstein Maxwell systems wormholes exact solutions of Einstein's equations gravitational waves gravitational wave detectors and data analysis precision gravitational measurements quantum gravity and loop quantum gravity quantum cosmology strings and branes self gravitating systems gamma ray astronomy cosmic rays and the history of general relativity

The Ninth Marcel Grossman Meeting (MGIXMM) Robert T. Jantzen, Remo Ruffini, Vahe G. Gurzadyan, 2002-12-01 In 1975 the Marcel Grossmann Meetings were established by Remo Ruffini and Abdus Salam to provide a forum for discussion of recent advances in gravitation general relativity and relativistic field theories In these meetings which are held once every three years every aspect of research is emphasized mathematical foundations physical predictions and numerical and experimental investigations The major objective of these meetings is to facilitate exchange among scientists so as to deepen our understanding of the structure of space time and to review the status of both the ground based and the space based experiments aimed at testing the theory of gravitation The Marcel Grossmann Meetings have grown under the guidance of an International Organizing Committee and a large International Coordinating Committee The first two meetings MG1 and MG2 were held in Trieste 1975 1979 A most memorable MG3 1982 was held in Shanghai and represented the first truly international scientific meeting in China after the so called Cultural Revolution Three years later MG4 was held in Rome 1985 It was at MG4 that astroparticle physics was born MGIXMM was organized by the International Organizing Committee composed of D Blair Y Choquet Bruhat D Christodoulou T Damour J Ehlers F Everitt Fang Li Zhi S Hawking Y Ne eman R Ruffini chair H Sato R Sunyaev and S Weinberg Essential to the organization was an International Coordinating Committee of 135 members from scientific institutions of 54 countries MGIXMM was attended by 997 scientists of 69 nationalities It took place on 28 July 2000 at the University of Rome Italy The scientific programs included 60 plenary and review talks as well as talks in 88 parallel sessions The three volumes of the proceedings of MGIXMM present a rather authoritative view of relativistic astrophysics which is becoming one of the priorities in scientific endeavour The papers appearing in these volumes cover all aspects of gravitation from mathematical issues to recent observations and experiments Their intention is to give a complete picture of our current understanding of gravitational theory at the turn of the millennium The Marcel Grossmann Individual Awards for this meeting were presented to Cecille and Bryce DeWitt Riccardo Giacconi and Roger

Penrose while the Institutional Award went to the Solvay Institute accepted on behalf of the Institute by Jacques Solvay and Ilya Prigogine The acceptance speeches are also included in the proceedings

Approaches to Fundamental Physics
Ion-Olimpiu Stamatescu, Erhard Seiler, 2007-09-28 This book represents in the first place the desire of the authors of the various contributions to enter a discussion about the research landscape of present day fundamental theoretical physics It documents their attempt out of their highly specialized scientific positions to find a way of communicating about methods achievements and promises of the different approaches which shape the development of this field It is therefore also an attempt to bring out the connections between these approaches and present them not as disjoint ventures but rather as facets of a common quest for understanding Whether in competition to each other or in collaboration the many fold ways of contemporary physics are characterized by a number of exciting findings and questions which appear more and more interrelated Moreover in the historical development of science the steadily arriving new empirical information partly supports partly contradicts the existing theories and partly brings forth unexpected results forcing a total reorientation upon us If we are lucky the beginning of this century may prove to be as grand as that of the last one

It is not an easy task in a situation so much in movement and in which various approaches strive for completion to promote a constructive interaction between these and to achieve a level of mutual understanding on which such an interaction can be fruitful Nearly all of the authors contributing to this book have been participating in a working group dedicated exactly to this task this group met in many sessions over several years This book is to a large extent the result of these discussions

Sixteenth Marcel Grossmann Meeting, The: On Recent Developments In Theoretical And Experimental General Relativity, Astrophysics, And Relativistic Field Theories - Proceedings Of The Mg16 Meeting On General Relativity (In 4 Volumes) Remo Ruffini, Gregory Vereshchagin, 2022-12-15 The proceedings of MG16 give a broad view of all aspects of gravitational physics and astrophysics from mathematical issues to recent observations and experiments The scientific program of the meeting included 46 plenary presentations 3 public lectures 5 round tables and 81 parallel sessions arranged during the intense six day online meeting All talks were recorded and are available on the ICRANet YouTube channel at the following link www.icranet.org/video_mg16 These proceedings are a representative sample of the very many contributions made at the meeting They contain 383 papers among which 14 come from the plenary sessions The material represented in these proceedings cover the following topics accretion active galactic nuclei alternative theories of gravity black holes theory observations and experiments binaries boson stars cosmic microwave background cosmic strings dark energy and large scale structure dark matter education exact solutions early universe fundamental interactions and stellar evolution fast transients gravitational waves high energy physics history of relativity neutron stars precision tests quantum gravity strong fields and white dwarf all of them represented by a large number of contributions The online e proceedings are published in an open access format

[Coarse Graining in Quantum Gravity: Bridging the Gap](#)

between Microscopic Models and Spacetime-Physics Astrid Eichhorn,Benjamin Bahr,Antonio D. Pereira,2021-07-15

Recent Developments in Gravitation Maurice Levy,S. Deser,2012-12-06 The theory of General Relativity after its invention by Albert Einstein remained for many years a monument of mathematical speculation striking in its ambition and its formal beauty but quite separated from the main stream of modern Physics which had centered after the early twenties on quantum mechanics and its applications In the last ten or fifteen years however the situation has changed radically First a great deal of significant experimental data became available Then important contributions were made to the incorporation of general relativity into the framework of quantum theory Finally in the last three years exciting developments took place which have placed general relativity and all the concepts behind it at the center of our understanding of particle physics and quantum field theory Firstly this is due to the fact that general relativity is really the original non abelian gauge theory and that our description of quantum field interactions makes extensive use of the concept of gauge invariance Secondly the ideas of supersymmetry have enabled theoreticians to combine gravity with other elementary particle interactions and to construct what is perhaps the first approach to a more finite quantum theory of gravitation which is known as super gravity

Quantum Gravity Claus Kiefer,2025-04-03 The description of Nature in physics currently falls into two parts the microscopic and the macroscopic The microscopic world molecules atoms particles is described by quantum theory whereas the macroscopic world planets stars galaxies universe is ruled by a classical interaction gravity that is described by Einstein's theory of general relativity This book describes in detail the attempts to unify quantum theory and relativity which are essential to understanding the origin of the Universe and the final fate of black holes The construction of a consistent quantum theory is among the most important open problems in fundamental physics This book describes the motivation for constructing such a theory and presents the main approaches These approaches include covariant quantization canonical quantization metric and loop approaches and string theory The book also covers the main applications which include black holes and cosmology This new edition includes updated content throughout as well as further explorations of the holographic principle unimodular gravity quantum gravitational correction terms and possible observations as these are topics that have experienced important developments since the last edition

The Tenth Marcel Grossmann Meeting M.

Novello,Santiago E. Perez Bergliaffa,Remo Ruffini,2005

General Relativity And Gravitation: Proceedings Of The

14th International Conference Mauro Francaviglia,Giorgio Longhi,Luca Lusanna,Emanuele Sorace,1997-04-01 This volume covers topics ranging from the early universe cosmology inflation quantum gravity exact solutions and computer aided computations to space and terrestrial gravity experiments with special emphasis on recent research

Every Thing Must Go James Ladyman,Don Ross,2007-07-05 Every Thing Must Go argues that the only kind of metaphysics that can contribute to objective knowledge is one based specifically on contemporary science as it really is and not on philosophers a priori intuitions common sense or simplifications of science In addition to showing how recent metaphysics has drifted away

from connection with all other serious scholarly inquiry as a result of not heeding this restriction they demonstrate how to build a metaphysics compatible with current fundamental physics ontic structural realism which when combined with their metaphysics of the special sciences rainforest realism can be used to unify physics with the other sciences without reducing these sciences to physics itself Taking science metaphysically seriously Ladyman and Ross argue means that metaphysicians must abandon the picture of the world as composed of self subsistent individual objects and the paradigm of causation as the collision of such objects Everything Must Go also assesses the role of information theory and complex systems theory in attempts to explain the relationship between the special sciences and physics treading a middle road between the grand synthesis of thermodynamics and information and eliminativism about information The consequences of the author's metaphysical theory for central issues in the philosophy of science are explored including the implications for the realism vs empiricism debate the role of causation in scientific explanations the nature of causation and laws the status of abstract and virtual objects and the objective reality of natural kinds

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