

The cosmological Constant Problem

The contribution of quantum fluctuations

$$T_{\mu\nu}^{\text{vac}} = \rho_{\text{vac}} g_{\mu\nu}, \quad \rho_{\text{vac}} = \hbar k_{\text{max}}$$

k_{max} stands for the ultraviolet momentum cutoff

$$\rho_{\text{vac}}^{\text{EW}} \sim 2 \cdot 10^{-4} \text{ g cm}^{-3}, \quad \rho_{\text{vac}}^{\text{QCD}} \sim 1.6 \cdot 10^{15} \text{ g cm}^{-3}, \quad \rho_{\text{vac}}^{\text{Pl}} \sim 2 \cdot 10^{89} \text{ g cm}^{-3}$$

$$\rho_{\Lambda} = \frac{\Lambda}{8\pi G} \sim h^2 \cdot 10^{-29} \text{ g cm}^{-3}$$

A similar problem happens when one assumes $\Lambda_{\text{vac}} = 8\pi G \rho_{\text{vac}}$

- Solar neighborhood $r_0^{\text{EW}} \sim 2 \cdot 10^{-2} h^{-2/3} \text{ a.u.}$ $r_0^{\text{Pl}} \sim 3 \cdot 10^{-11} h^{-2/3} \text{ \AA}$
- Primordial epoch (Vacuum fluctuations superdominance)

Another version of the Cosmological Constant Problem

It consists on arguing on the smallness of $\Lambda = \Lambda_{\text{vac}} + \Lambda_0$

Gravitation And Modern Cosmology The Cosmological Constant Problem

Marilena Streit-Bianchi, Vittorio Gorini



Gravitation And Modern Cosmology The Cosmological Constant Problem:

Gravitation and Modern Cosmology N. Sánchez, A. Zichichi, V. de Sabbata, 2013-06-29 Peter Gabriel Bergmann started his work on general relativity in 1936 when he moved from Prague to the Institute for Advanced Study in Princeton Bergmann collaborated with Einstein in an attempt to provide a geometrical unified field theory of gravitation and electromagnetism Within this program they wrote two articles together A Einstein and P G Bergmann Ann Math 39 685 1938 and A Einstein V Bargmann and P G Bergmann Th von Karman Anniversary Volume 212 1941 The search for such a theory was intense in the ten years following the birth of general relativity In recent years some of the geometrical ideas proposed in these publications have proved essential in contemporary attempts towards the unification of all interactions including gravity Kaluza Klein type theories and supergravity theories In 1942 Bergmann published the book Introduction to the Theory of Relativity which included a foreword by Albert Einstein This book is a reference for the subject either as a textbook for classroom use or for individual study A second corrected and enlarged edition of the book was published in 1976 Einstein said in his foreword to the first edition Bergmann s book seems to me to satisfy a definite need Much effort has gone into making this book logically and pedagogically satisfactory and Bergmann has spent many hours with me which were devoted to this end

Literature 1992, Part 1 Astronomisches Recheninstitut, 2013-11-11 Astronomy and Astrophysics Abstracts appearing twice a year has become one of the fundamental publications in the fields of astronomy astrophysics and neighbouring sciences It is the most important English language abstracting journal in the mentioned branches The abstracts are classified under more than a hundred subject categories thus permitting a quick survey of the whole extended material The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world

Cosmology and Gravitation II Marius Paul Bernard Novella, 1996

The Renaissance of General Relativity in

Context Alexander S. Blum, Roberto Lalli, Jürgen Renn, 2020-11-12 This contributed volume explores the renaissance of general relativity after World War II when it transformed from a marginal theory into a cornerstone of modern physics Chapters explore key historical processes related to the theory of general relativity in addition to presenting a thorough treatment of the relevant science behind these episodes A broad historiographical framework is introduced first thus providing the broad context in which the given computational approaches and case studies occurred Written by an international and interdisciplinary group of expert authors these chapters will bring readers to a more complete understanding of Einstein s theory Specific topics include Social and citation networks The Fock Infeld dispute Wheeler s turn to gravitation theory The position of general relativity in theories of fundamental interactions The pursuit of a quantum theory of gravity The emergence of dark matter in relation to cosmological models Institutional frameworks for gravitational wave search in Europe The Renaissance of General Relativity in Context is ideal for historians philosophers and sociologists

of science Students and researchers in physics will also be interested in the topics explored

Cosmology and Gravitation Mario Novello, Santiago E. Bergliaffa, 2003-06-11 This volume contains a series of topical lectures in general relativity cosmology astrophysics and field theory with contributions from theorists and experimentalists

Relativity, Gravitation and Cosmology Ta-Pei Cheng, 2010 An introduction to Einstein's general theory of relativity this work is structured so that interesting applications such as gravitational lensing black holes and cosmology can be presented without the readers having to first learn the difficult mathematics of tensor calculus

Gravitation and Cosmology: From the Hubble Radius to the Planck Scale Richard L. Amoroso, G. Hunter, Menas Kafatos, J.P. Vigi er, 2006-04-11 Jean Pierre Vigi er 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 Vigi er 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

The Philosophy of Cosmology Khalil Chamcham, Joseph Silk, John D. Barrow, Simon Saunders, 2017-04-13 This book addresses foundational questions raised by observational and theoretical progress in modern cosmology As the foundational volume of an emerging academic discipline experts from relevant fields lay out the fundamental problems of contemporary cosmology and explore the routes toward finding possible solutions for a broad academic audience

Aspects of Today's Cosmology Antonio Alfonso-Faus, 2011-09-09 This book presents some aspects of the cosmological scientific odyssey that started last century The chapters vary with different particular works giving a versatile picture It is the result of the work of many scientists in the field of cosmology in accordance with their expertise and particular interests Is a collection of different research papers produced by important scientists in the field of cosmology A sample of the great deal of efforts made by the scientific community trying to understand our universe And it has many challenging subjects like the possible doomsday to be confirmed by the next decade of experimentation May be we are now half way in the life of the universe Many more challenging subjects are not present here they will be the result of further future work Among them we have the possibility of cyclic universes and the evidence for the existence of a previous universe

Cosmology and Gravitation M ario Novello, Santiago E. Perez Bergliaffa, 2007-07-03 The proceedings from the 12th Brazilian School of Cosmology and Gravitation offer an up to date series of lectures covering issues at the forefront of cosmology gravitation and astrophysics Of

particular note are the interesting results presented by Belinski regarding the absence of black hole evaporation In addition Riffini offers an insightful article you ll want to read that explores the origin of gamma 0 ray bursts

Topological Defects and the Non-Equilibrium Dynamics of Symmetry Breaking Phase Transitions Yuriy M. Bunkov, Henri Godfrin, 2012-12-06 Topological defects formed at symmetry breaking phase transitions play an important role in many different fields of physics They appear in many condensed matter systems at low temperature examples include vortices in superfluid helium 4 a rich variety of defects in helium 3 quantized mag netic flux tubes in type II superconductors and disclination lines and other defects in liquid crystals In cosmology unified gauge theories of particle interactions suggest a sequence of phase transitions in the very early uni verse some of which may lead to defect formation In astrophysics defects play an important role in the dynamics of neutron stars In 1997 the European Science Foundation started the scientific network Topological defects headed by Tom Kibble This network has provided us with a unique opportunity of establishing a collaboration between the representatives of these very different branches of modern physics The NATO ASI Advanced Study Institute held in Les Houches in February 1999 thanks to the support of the Scientific Division of NATO the European Science Foundation and the CNRS represents a key event of this ESF network It brought together participants from widely different fields with diverse expertise and vocabulary fostering the exchange of ideas The lectures given by particle physicists cosmologists and condensed matter physicists are the result of the fruitful collaborations established since 1997 between groups in several European countries and in the U S A

New Frontiers in Science in the Era of AI Marilena Streit-Bianchi, Vittorio Gorini, 2024-10-10 This interdisciplinary book enables scientists and non specialists from various fields to delve into fascinating historical and recent scientific advancements in physics astrophysics genetic evolution neuroscience and artificial intelligence Paradigm shifts are common in science but some have significantly changed our perception and understanding of the world This volume not only explores the profound implications of these scientific frontiers but also forecasts their impact on daily life It delves into ongoing research and the technology that fuels advancements in physics and related fields Authored by renowned researchers and science communicators this book appeals to researchers and non experts seeking a comprehensive overview of emerging developments that challenge ongoing research and will impact education and society in the coming years Structured into distinct sections New Physics World Evolutionary Genetics to Epigenetics Neurosciences and Neurophilosophy Applications of Artificial Intelligence and The Mystery of the Dark Sector each chapter provides a deep dive into its respective subject shedding light on the mysteries and implications of cutting edge science The book ends with an Epilogue illustrating the limitations of and challenges for our cognitive abilities

Physics Briefs ,1992 **Literature 1991, Part 2** Astronomisches Rechen-Institut, 2013-06-29 Astronomy and Astrophysics Abstracts appearing twice a year has become one of the fundamental publications in the fields of astronomy astrophysics and neighbouring sciences It is the most important English language abstracting journal in the mentioned branches The

abstracts are classified under more than a hundred subject categories thus permitting a quick survey of the whole extended material The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world *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

Cosmology and the Early Universe Pasquale Di Bari, 2018-09-03 This book discusses cosmology from both an observational and a strong theoretical perspective The first part focuses on gravitation notably the expansion of the universe and determination of cosmological parameters before moving onto the main emphasis of the book the physics of the early universe and the connections between cosmological models and particle physics The book provides links with particle physics and with investigations of the theories beyond the Standard Model especially in connection to dark matter and matter antimatter asymmetry puzzles Readers will gain a comprehensive account of cosmology and the latest observational results without requiring prior knowledge of relativistic theories making the text ideal for students Features Provides a self contained discussion of modern cosmology results without requiring any prior knowledge of relativistic theories enabling students to learn the first rudiments needed for a rigorous comprehension of cosmological concepts Contains a timely discussion of the latest cosmological results including those from WMAP and the Planck satellite and discuss the cosmological applications of the Nobel Prize 2017 awarded discovery of gravitational waves by the LIGO interferometer and the very high energy neutrinos discovered by the IceCube detector Includes original figures complementing mathematical derivations and accounting for the most important cosmological observations in addition to a wide variety of problems with a full set of solutions discussed in detail in an accompanying solutions manual available upon qualifying course adoption To

view the errata please visit the authors personal webpage [General Relativity And Gravitation - Proceedings Of The 17th International Conference](#) Adrian Ottewill, Petros Florides, Brian Nolan, 2005-11-07 This authoritative volume provides a snapshot of the state of the art in gravitational physics and related mathematical fields as well as a review of recent achievements and prospects for future work With contributing authors among the world leaders in their respective fields this proceedings volume is a worthy addition to this conference series which constitutes one of the most important international meetings in the areas general relativity and gravitation

Theory of Dynamic Gravitation Songcheng Li, 2024-12-26 Three centuries after the contributions of Isaac Newton 1642-1726 classical physics has attained a level of sophistication that enables it to provide solutions to unresolved challenges in contemporary physics This book presents a theory of dynamic gravitation within the framework of classical physics that extends Newton's universal law of gravitation to encompass galactic and cosmic scales This theory mathematically derives the dynamics of celestial bodies without invoking dark matter dark energy relativistic effects or empirical modifications It provides a comprehensive theoretical framework for Milgrom's modified Newtonian dynamics and integrates Newton's inverse square law with Milgrom's inverse linear law The dynamic gravitation elucidates the fundamental principles underlying various phenomena including orbital evolution and precession gravitational lensing the missing mass problem and galaxy rotation curves

Advances in the Interplay Between Quantum and Gravity Physics Peter G. Bergmann, V. de Sabbata, 2012-12-06 In this XVII Course of the International School of Cosmology and Gravitation devoted to ADVANCES IN THE INTERPLAY BETWEEN QUANTUM AND GRAVITY PHYSICS we have considered different aspects of the influence of gravity on quantum systems In order to achieve this aim in many lectures seminars and discussions we have strengthened the interplay between gravity and quantum systems starting from the situation in the early universe based on astrophysical observations up to the earthly based experiments with atom interferometry for probing the structure of space time Thus we have had timely lectures on the quantum field and horizon of a black hole including reviews of the problem of black holes thermodynamics and entropy quantum information quantum black holes quantum evaporation and Hawking radiation recent advances in stochastic gravity We have also discussed quantum fluctuations in inflationary universe quantum effects and reheating after inflation and superplanckian energies in Hawking radiation In this regard the subject of spinors in purely affine space time and Dirac matter according to Weyl in the generalized theory of gravitation were developed The dualism between space time and matter has been deeply analyzed in order to see why for general relativity this is an obstacle for quantization of the theory Also canonical Gravity and Mach's principle torsion and curvature as commutator for Quantum Gravity and Dirac Geometry of real space time were analysed together with the problem of 5 Dimensional Projective Unified Field theory and Multidimensional Gravity and Cosmology

Proceedings of the Sixth Alexander Friedmann International Seminar on Gravitation and Cosmology Vladimir Mikhaïlovich Mostepanenko, 2005

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