

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 domination)

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

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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 Gravitation and Cosmology: From the Hubble Radius to the Planck Scale Richard L. Amoroso, G. Hunter, Menas Kafatos, J.P. Vigiér, 2006-04-11 Jean Pierre Vigiér continually labeled one of the heretics of science the eternal resistant and the patriarch 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 Jean Pierre Vigiér 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 Musée du Louvre along the Champs Élysées to the Arc de Triomphe would instill even the least creative soul with the entelechies of a poet's 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 Université reported to be the best university in France is stationed

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 Physics Briefs, 1992

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 Medium-Energy Antiprotons and the Quark—Gluon Structure of Hadrons R. Klapisch, R. Landua, J.M. Richard, 2012-12-06 The fourth course of the International School on Physics with Low Energy Antiprotons was held in Erice Sicily at the Ettore Majorana Centre for Scientific Culture from 25 to 31 January 1990 The previous courses covered topics related to fundamental symmetries light and heavy quark spectroscopy and antiproton nucleus interactions The purpose of this school is to review theoretical and experimental aspects of low energy antiproton physics concerning the quark gluon structure of hadrons and the dynamics of the antiproton nucleon interaction Another important objective is the discussion of future directions of research with low and

medium energy antiprotons in the context of future medium energy facilities at CERN and elsewhere These proceedings contain both the tutorial lectures and the various contributions presented during the school by the participants The proceedings have been organised in three sections The first section is devoted to the theoretical lectures and contributions The selection of the various subjects wants to emphasize the correlation between antiproton nucleon physics and the underlying description in terms of quarks and gluons The second section contains an overview about 35 years of experiments with antiprotons It gives an introduction to the particle physics aspects of the field by outlining the historical development of experiment and theory and by describing the motivation and the results of three recent LEAR experiments in more detail The third section contains most of the contributions of the participants describing in more detail certain aspects of current or planned experiments at LEAR

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

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

Cosmology and Gravitation Mário 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 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 magnetic 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 universe, 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 Evolution, 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 and challenges for our cognitive abilities.

Gravitation and Astrophysics James M. Nester, Chiang-Mei Chen, Jong-Ping Hsu, 2007 The ICGA series of conferences is specially aimed to serve the needs of the workers in this research area in the Asia Pacific region. The previous conferences of this series have attracted a growing number of local, regional, and international participants. 2005 was an auspicious year. Not only was it the International Year of Physics, commemorating Einstein's great achievements of 1905, it also was the anniversary of Einstein's development of

General Relativity he submitted the final form of his field equations on 25 November 1915 Nine decades years later around 40 Taiwan based participants were joined by over 40 distinguished visitors from Canada China France Japan Korea Russia and the USA and this volume includes many of the papers that were presented The depth and breadth of these contributions reflect the high quality of the meeting and the development of the field in the Asia Pacific region Sample Chapter s Chapter 1 Progress in Testing Newtonian Inverse Square Law 234 KB Contents Experimental Tests of Gravity Numerical Relativity Cosmology Astrophysics Quantum Gravity Classical Gravity Readership Graduate students and researchers in astrophysics gravitation cosmology and theoretical physics *New Ideas Concerning Black Holes and the Universe* Eugene Tatum,2020 The ideas presented in this book are new scientific theories based largely upon a spate of very recent astronomical observations These theories include a cosmological model that appears to be superior in many respects to the inflationary concordance model proposed thermal stability criteria for a generic quantum black hole theoretical constraints concerning black hole binary graviton emissions theoretical effects of abelian vortices on space time and a proposed solution to the mystery of the observed asymmetry between universal matter and antimatter The new ideas presented in this book have been selected in order to inspire others that regardless of the impending limits of observation the scientific creative process will continue 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

New Technologies for Supercolliders L. Cifarelli, Thomas Ypsilantis, 2012-12-06 The present volume is based on the proceedings of the 12th Workshop of the INFN ELOISATRON Project held at the Ettore Majorana Centre for Scientific Culture EMCSC Erice frapani Sicily Italy in the period September 15 20 1990 The proceedings deal with the presentation of New Technologies for Supercolliders Three new energy frontiers 16 40 and 200 TeV are now opened up for the future of Subnuclear Physics Basic problems above the Fermi energy are crowding up but no one knows the energy levels needed for their solution This is why the technology for experiments with the new generation of Supercolliders needs to be pursued having in mind the problems which are of common interest in the three energy frontiers The primary purpose of the Workshop was to contribute towards the highest energy limit in the search for new instruments and new technologies Furthermore the present status and performances of various detector technologies were reviewed The possible options for a powerful apparatus whose goal would be the discovery of the top Higgs and SUSY particles in a very high energy high rate environment were finally analysed The Workshop was sponsored by the Italian National Institute for Nuclear Physics INFN the Italian Ministry of Education the Italian Ministry of Scientific and Technological Research and the Sicilian Regional Government We are thankful to the staff of EMCSC for their efficient and warm support

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