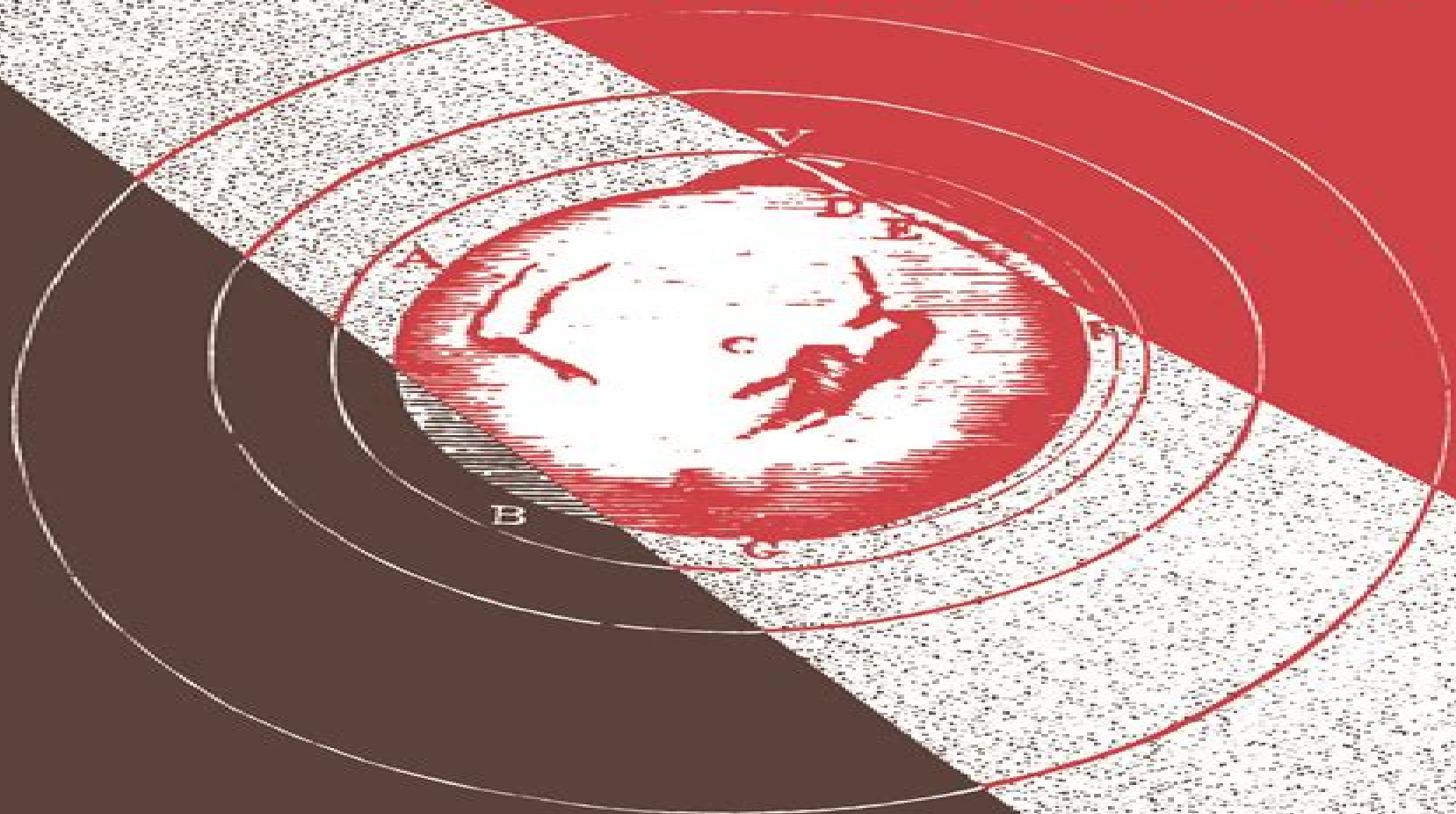


Quantization of Gauge Systems

Marc Henneaux
and
Claudio Teitelboim



Quantization Of Gauge Systems

Ruslan Vaulin



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Hamiltonian Methods in the Quantization of Gauge Systems Ruslan Vaulin, 2006

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Deparametrization And Path Integral Quantization Of Cosmological Models Claudio Simeone, 2002-02-27 The problem of time is a central feature of quantum cosmology differing from ordinary quantum mechanics in cosmology there is nothing outside the system which plays the role of clock and this makes difficult the obtention of a consistent quantization A possible solution is to assume that a subset of the variables describing the state of the universe can be a clock for the remaining of the system Following this line in this book a new proposal consisting in the previous identification of time by means of gauge fixation is applied to the quantization of homogeneous cosmological models Both path integral and canonical formulations are studied for relativistic and string cosmologies in particular a complete chapter about low energy string cosmology is included

The required basic concepts as for example the Hamiltonian formulation of General Relativity are reviewed so that the book can be of interest not only for a researcher but also for a student

Group Theoretical Methods in Physics G.S Pogosyan,L.E Vincent,K.B Wolf,2005-05-01 This book discusses group theoretical methods and their applications in physics chemistry and biology It covers traditional subjects including Lie group and representation theory special functions foundations of quantum mechanics and elementary particle nuclear atomic and molecular physics More recent areas discussed are supersymmetry superstrings and quantum gravity integrability nonlinear systems and quantum chaos semigroups time asymmetry and resonances condensed matter and statistical physics Topics such as linear and nonlinear optics quantum computing discrete systems and signal analysis have only in the last few years become part of the group theorists turf

Classical and Quantum Dynamics of Constrained Hamiltonian Systems Heinz J. Rothe,Klaus Dieter Rothe,2010 This book is an introduction to the field of constrained Hamiltonian systems and their quantization a topic which is of central interest to theoretical physicists who wish to obtain a deeper understanding of the quantization of gauge theories such as describing the fundamental interactions in nature Beginning with the early work of Dirac the book covers the main developments in the field up to more recent topics such as the field antifield formalism of Batalin and Vilkovisky including a short discussion of how gauge anomalies may be incorporated into this formalism The book is comprehensive and well illustrated with examples enables graduate students to follow the literature on this subject without much problems and to perform research in this field

Foundations Of Quantum Field Theory Klaus D Rothe,2020-09-03 Based on a two semester course held at the University of Heidelberg Germany this book provides an adequate resource for the lecturer and the student The contents are primarily aimed at graduate students who wish to learn about the fundamental concepts behind constructing a Relativistic Quantum Theory of particles and fields So it provides a comprehensive foundation for the extension to Quantum Chromodynamics and Weak Interactions that are not included in this book

Lectures on Quantum Chromodynamics A. V. Smilga,2001

Quantum chromodynamics is the fundamental theory of strong interactions It is a physical theory describing Nature Lectures on Quantum Chromodynamics concentrates however not on the phenomenological aspect of QCD books with comprehensive coverage of phenomenological issues have been written What the reader will find in this book is a profound discussion on the theoretical foundations of QCD with emphasis on the nonperturbative formulation of the theory What is gauge symmetry on the classical and on the quantum level What is the path integral in field theory How to define the path integral on the lattice keeping intact as many symmetries of the continuum theory as possible What is the QCD vacuum state What is the effective low energy dynamics of QCD How do the ITEP sum rules work What happens if we heat and or squeeze hadronic matter Perturbative issues are also discussed How to calculate Feynman graphs What is the BRST symmetry What is the meaning of the renormalization procedure How to resum infrared and collinear singularities And so on The book is an outgrowth of the course of lectures given by the author for graduate students at ITEP in Moscow Much extra material has been added Sample

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