

# Quantum Gravity in 2+1 Dimensions

STEVEN CARLIP

FAMBRIDGE MONOGRAPH  
ON MATHEMATICAL PHYSICS

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2+1 Dimensions

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# Quantum Gravity In 2 1 Dimensions

**Tobias Bleicker**



## **Quantum Gravity In 2 + 1 Dimensions:**

Quantum Gravity in 2+1 Dimensions Steven Carlip, Steven Jonathan Carlip, 2003-12-04 The first comprehensive survey of 2 + 1 dimensional quantum gravity for graduate students and researchers      **Quantum Gravity in (2+1) Dimensions** Vince Velocci, 2007      **Black Holes: Theory and Observation** Friedrich W. Hehl, Claus Kiefer, Ralph J.K. Metzler, 1998-11-26 This book addresses graduate students in the first place and is meant as a modern compendium to the existing texts on black hole astrophysics The authors present in pedagogically written articles our present knowledge on black holes covering mathematical models including numerical aspects and physics and astronomical observations as well In addition in their write up of a panel discussion the participants of the school address the existence of black holes consenting that it has by now been verified with certainty      **High Energy Physics - Proceedings Of The 25th International Conference (In 2 Volumes)** Kok Khoo Phua, Y Yamaguchi, 1991-07-15 This proceedings contains the talks delivered at the plenary and parallel sessions Topics covered include e e Physics at Z0 String Theory and Theory of Extended Objects High Energy pp Physics Non Accelerator Particle Physics Conformal Field Theory e e Physics below Z Structure Functions and Deep Inelastic Scattering Neutrino Physics Recent Developments in 2 Dimensional Gravity Lattice Gauge Theory and Computer Simulations CP Violation Accelerator Physics Cosmology and Particle Physics Interface Between Particle and Condensed Matter Physics Detector R D and Astroparticle Physics      **Lattice 91** M. Fukugita, Y. Iwasaki, M. Okawa, 2016-06-03 Lattice 91 covers the proceedings of the International Symposium on Lattice Field Theory held in Tsukuba Japan on 5-9 November 1991 The book focuses on quantum chromodynamics Higgs fermion theories QED lattice quantum gravity and random surfaces spin systems related to field theory simulation algorithms and dedicated computers The selection first offers information on the QCD spectrum and phase diagram on the lattice and QCD at finite density including phase structure of QCD Monte Carlo simulations with dynamical fermions and quenched approximation The book then tackles weak matrix elements simulation of heavy quarks and sphaleron induced baryon number non conservation The text reviews quantum gravity and random surfaces recent analytic progress in finite size effects and parallel QCD machines Discussions focus on two dimensional quantum gravity signatures of resonance in finite volume first order transitions and determination of the running coupling The publication also ponders on hadronic forces from the lattice universality of the confinement string in multiple potentials and confinement and saddle point configurations The selection is highly recommended for readers interested in the lattice field theory      Gravitation: A Banff Summer Institute Robert B Mann, Paul S Wesson, 1991-08-16 Bringing together some of the top researchers gravitational physics the 1990 Banff Summer Institute on Gravitation focussed on three of the most exciting areas of research in this subject today Cosmology Quantum Gravity and Tests of Gravitational Theory Besides covering the most up to date developments special emphasis was placed upon the interdisciplinary aspects of each of these topics The pedagogical character of the lectures is designed to bring graduate students up to the forefront of research

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*Quantum Gravity and Spectral Geometry* Giampiero Esposito,Gennaro Miele,Bruno Preziosi,2002      **Physics Briefs**  
,1993      *Aspects of (2+1)-dimensional Quantum Gravity and Topology* Juan Manuel García-Islas,University of  
Nottingham,2003      Galilean quantum gravity in 2+1 dimensions Georgios Papageorgiou,2010      *Supersymmetry* Vladimir  
K. Dobrev,2018-09-24 With applications in quantum field theory general relativity and elementary particle physics this four  
volume work studies the invariance of differential operators under Lie algebras quantum groups and superalgebras This third  
volume covers supersymmetry including detailed coverage of conformal supersymmetry in four and some higher dimensions  
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