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several objects such as black holes require the union of gravity with quantum mechanics to be made sense of Without quantum gravity we can only get approximate answers There are some models which claim to contain quantum gravity such as string theory but these have not yet been verified'

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GERHARDT Abstract We apply quantum gravitational results to spatially un bounded Friedmann universes and try to answer some questions related to dark energy dark matter in ation and the missing antimatter Contents 1 Introduction1 2 The dark energy density6 3 The in ationary'

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November 23rd, 2019 - It presents for the first time most of the approaches in a single textbook Among them are canonical quantum gravity including loop quantum gravity covariant quantum gravity and string theory The book also discusses the relevance of these theories for cosmology and the physics of black holes'

'Loop Quantum Cosmology arXiv

March 16th, 2019 - imation schemes for direct applications Loop quantum cosmology is based on symmetry reduction in the simplest case to isotropic geometries 9 This poses the mathematical problem as to how the quantum representation of a model and its composite operators can be derived from that of the full theory and in which sense this can be regarded as"*Quantum gravity and cosmology Physics Forums*

October 2nd, 2013 - There do appear to be models of cosmology such as CCC or Baum Frampton that seem to try and sidestep this requirement but looking at quantum gravity seems to be the mainstream approach I would like to keep this post open to have a directory for what different approaches to quantum gravity imply about what happened at the big bang"**Applications of Canonical Quantum Gravity to Cosmology**

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December 16th, 2019 - Physical applications discussed at length include the quantization of black holes quantum cosmology the indications of a discrete structure of spacetime and the origin of irreversibility This third edition contains new chapters or sections on quantum gravity phenomenology Horava Lifshitz quantum gravity analogue gravity the holographic principle and affine quantum gravity'

'Bene?ts of Objective Collapse Models for Cosmology and November 29th, 2019 - Bene?ts of Objective Collapse Models for Cosmology and Quantum Gravity section 6 we outline a possible link between spontaneous collapses and black holes and extract course a substantial problem on its own but it appears even more debilitating with applications to cosmology or quantum gravity in mind'

'Quantum gravity Scholarpedia

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January 28th, 2018 - So black holes in quantum gravity frameworks have numerically smaller entropy than the nondeformed black holes in four dimensions The phase space volume in the dimension is changed from to and the number of quantum state with energy less than is obtained as $35 \cdot 40$ where is a parameter of Klein Gordon equation and in the mass of the scalar field in brick wall model'

'Canonical quantum gravity Wikipedia

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November 28th, 2019 - We display a number of advantages of objective collapse theories for the resolution of long standing problems in cosmology and quantum gravity Benefits of Objective Collapse Models for Cosmology and Quantum Gravity Authors which relates the spontaneous collapse events of objective collapse models to microscopic virtual black holes'

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'Quantum Gravity an overview ScienceDirect Topics

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'Introduction to Loop Quantum Gravity

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November 28th, 2019 - First published 2011 Printed in the United Kingdom at the University Press Cambridge A catalogue record for this publication is available from the British Library Library of Congress Cataloguing in Publication data Bojowald Martin Canonical gravity and applications cosmology black holes and quantum gravity Martin Bojowald p'

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