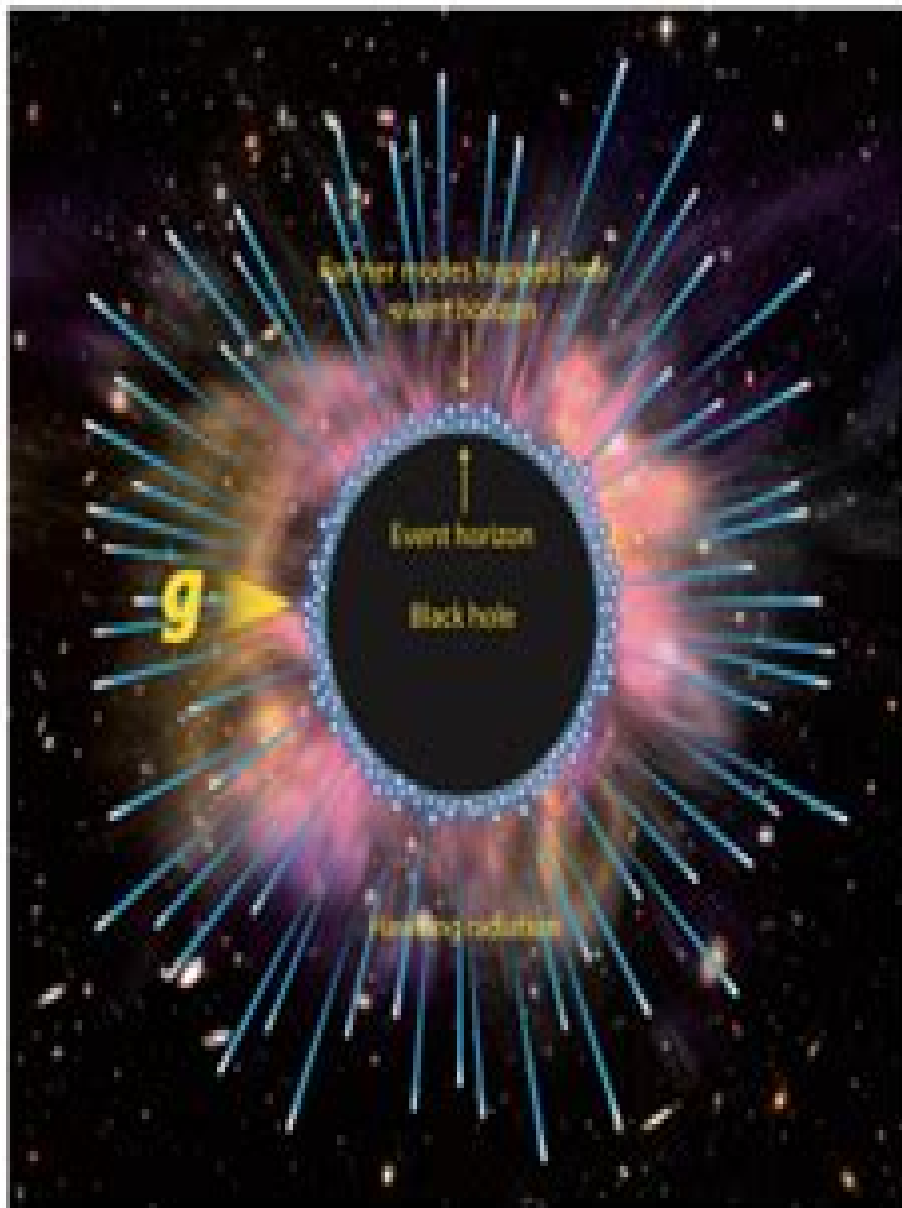
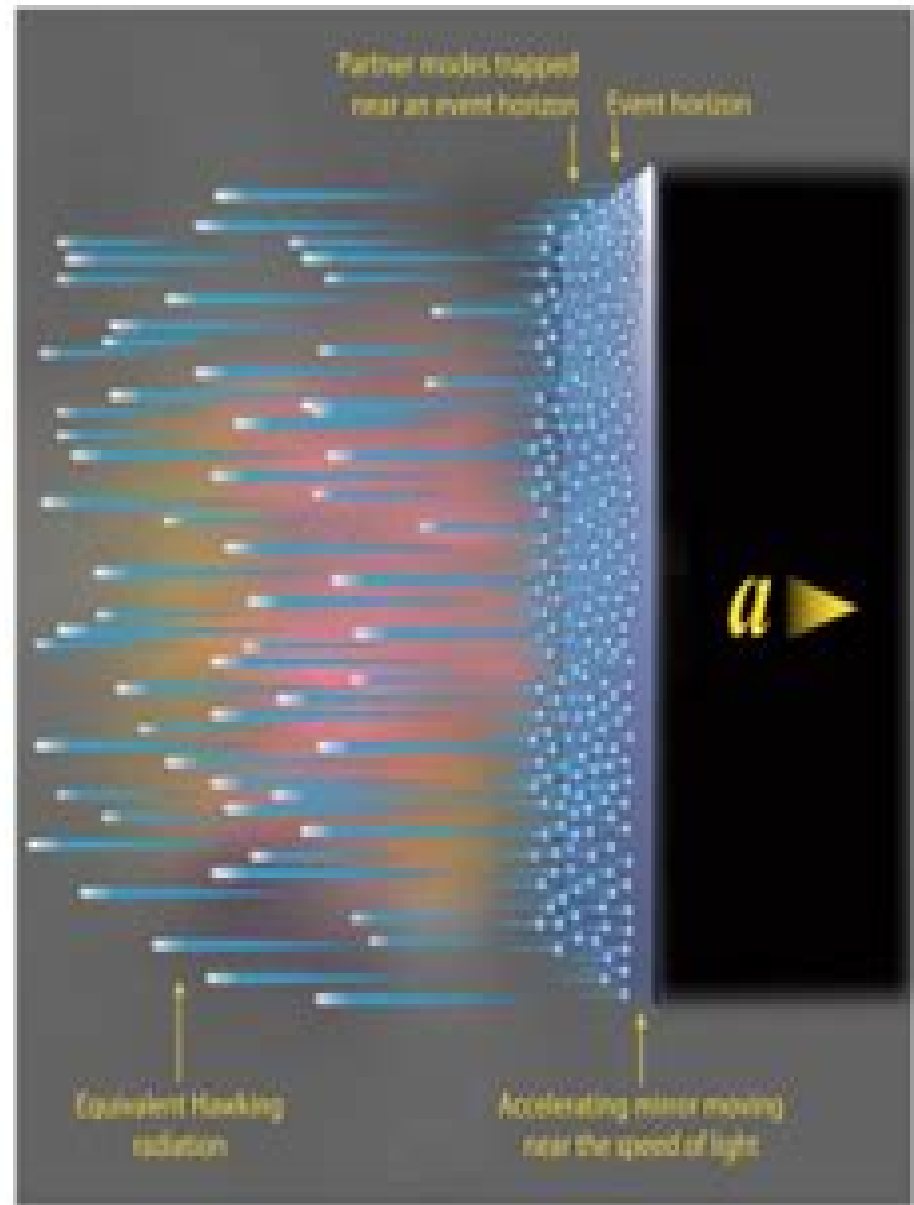


SIMULATING A BLACK HOLE ON A TABLE

New black hole simulator may shed more light on a contradiction in fundamental physics



Black hole Hawking evaporation



Accelerating mirror as an analog black hole

Modeling Black Hole Evaporation

**Kok Khoo Phua, Phil Aik Hui
Chan, Ngee-pong Chang, Leong-chuan
Kwek**



Modeling Black Hole Evaporation:

Modeling Black Hole Evaporation Jose Navarro-salas,Alessandro Fabbri,2005-01-24 The scope of this book is two fold the first part gives a fully detailed and pedagogical presentation of the Hawking effect and its physical implications and the second discusses the backreaction problem especially in connection with exactly solvable semiclassical models that describe analytically the black hole evaporation process The book aims to establish a link between the general relativistic viewpoint on black hole evaporation and the new CFT type approaches to the subject The detailed discussion on backreaction effects is also extremely valuable a

Modeling Black Hole Evaporation Alessandro Fabbri,José Navarro-Salas,2005 The scope of this book is two fold the first part gives a fully detailed and pedagogical presentation of the Hawking effect and its physical implications and the second discusses the backreaction problem especially in connection with exactly solvable semiclassical models that describe analytically the black hole evaporation process The book aims to establish a link between the general relativistic viewpoint on black hole evaporation and the new CFT type approaches to the subject The detailed discussion on backreaction effects is also extremely valuable

The Black Hole Information Paradox Ali Akil,Cosimo Bambi,2025-09-30 This book reviews a few different derivations of the Hawking radiation most main solutions to the paradox proposed in the literature and some analog laboratory experiments A black hole is an object whose gravity is so strong that nothing not even light can escape its grasp However applying quantum field theory on a black hole background Stephen Hawking showed that black holes are not completely black In fact they seem to emit a form of radiation that was named the Hawking radiation The Hawking radiation appears to be thermal and in a quantum state that is independent of the initial state that formed the black hole instead it solely depends on the black hole's total mass spin and electric charge A problem arises when we consider an initial system that collapses forms a black hole and eventually the black hole evaporates completely through Hawking radiation Since Hawking radiation depends solely on the black hole's total mass spin and electric charge it implies that numerous distinct initial states could all lead to the same final state Consequently the intricate details of the initial state seem to be lost which contradicts the unitarity of evolution of closed systems a fundamental principle of quantum mechanics The unitarity principle implies that closed systems evolve in a reversible manner such that knowing a system's final state and the way it evolved one can always determine its initial state The many to one evolution of the black hole initial state to radiation evolution is in a clear contradiction with this principle This is the black hole information paradox The black hole information paradox was found in the 1970s by Stephen Hawking Over the past 50 years it has attracted a lot of interest in the theoretical physics community and is still an active research field Chapters are written by leading experts in the field

Classical and Quantum Aspects of Gravity in Relation to the Emergent Paradigm Sumanta Chakraborty,2017-08-01 This thesis explores the connection between gravity and thermodynamics and provides a unification scheme that opens up new directions of exploration Further elaborating on the Hawking effect and the possibility of

singularity avoidance the author not only discusses the information loss paradox at a broader level but also provides a possible solution to it As the final frontier it describes some novel effects arising from the microscopic structure of spacetime Taken as a whole the thesis addresses three major research areas in gravitational physics it starts with classical gravity proceeds to the black hole information loss paradox and closes with Planck scale physics The thesis is written in a lucid and pedagogical style with an introduction accessible to researchers from other branches of physics and a discussion presenting open questions and future directions which will benefit and hopefully inspire next generation researchers

Theoretical Frontiers in Black Holes and Cosmology Renata Kallosh, Emanuele Orazi, 2016-07-16 These lecture notes are dedicated to the most recent theoretical applications of Black Hole solutions in high energy physics The main motivation of this volume is to present the latest black hole backgrounds that are relevant for gauge gravity correspondence Leading scientists in the field explain effective techniques for finding singular and cosmological solutions embedded in gauged supergravity shedding light on underlying properties and symmetries Starting from a basic level the mathematical structures underlying black holes and cosmologies are revealed helping the reader grasp the connection between theoretical approaches and physical observations with insights into possible future developments from both a theoretical and experimental point of view The topics covered in this volume are based on lectures delivered during the Theoretical Frontiers in Black Holes and Cosmology school held in Natal in June 2015

Hawking Radiation: From Astrophysical Black Holes To Analogous Systems In Lab Francesco D Belgiorno, Sergio L Cacciatori, Daniele Faccio, 2018-07-09 The book can be a good introduction to research in the area of black hole physics Also it can serve as a source book for the established researcher in the field The book contains an extensive bibliography the contents of which are amply cited throughout the text The book well documents the historical development of the theory of Hawking radiation and related topics The book is a worthwhile addition to the physics literature on a topic of considerable interest

zbMATH The aim of this book is to provide the reader with a guide to Hawking radiation through a dual approach to the problem After an introductory chapter containing some basic knowledge about black holes and quantum field theory in curved spacetime the first part of the book consists in a survey of methods for deriving and studying Hawking radiation from astrophysical black holes from the original calculation by S W Hawking to the most recent contributions involving tunneling and gravitational anomalies In the second part we introduce analogue gravity and we focus our attention to dielectric black hole systems to which the studies of the present authors are devoted The mutual interchange of knowledge between the aforementioned parts is addressed to render a more comprehensive picture of this very fascinating quantum phenomenon associated with black holes

[New Frontiers in Gravitational Collapse and Spacetime Singularities](#) Daniele Malafarina, Pankaj S. Joshi, 2024-05-02 The book collects a series of articles to review the advances that have been made in the field of gravitational collapse in general relativity and alternative theories of gravity in the past few years Many approaches to black hole and singularity formation in general relativity and beyond have been proposed over the last few

decades The importance of collapse models is that they provide natural thought experiments where to test the behavior and properties of a variety of approaches to general relativity and its implications for ultra compact objects in the universe

Proceedings Of The Conference In Honour Of The 90th Birthday Of Freeman Dyson Kok Khoo Phua, Phil Aik Hui Chan, Ngee-pong Chang, Leong-chuan Kwek, 2014-04-22 Professor Freeman Dyson a great physicist thinker and futurist has been very active in scientific literary and public policy activities throughout his career As a tribute to him on the occasion of his 90th birthday and to celebrate his lifelong contributions in physics mathematics astronomy nuclear engineering and global warming a conference covering a wide range of topics was held in Singapore from 26 to 29 August 2013 Distinguished scientists from around the world including Nobel Laureate Professor David Gross joined Professor Dyson in the celebration with a festival of lectures This memorable volume collects an interesting lecture by Professor Dyson Is a Graviton Detectable contributions by speakers at the conference as well as guest contributions by colleagues who celebrated Dyson s birthday at Rutgers University and Institute for Advanced Study in Princeton About Freeman Dyson Freeman John Dyson FRS born December 15 1923 is an eminent English born American physicist mathematician and futurist He is famous for his work in quantum electrodynamics solid state physics mathematics astronomy and nuclear engineering as well as a renowned and best selling author He has spent most of his life as a professor of physics at the Institute for Advanced Study in Princeton taking time off to advise the US government and write books for the public He has won numerous notable awards including the Enrico Fermi Award Templeton Prize Wolf Prize Pomeranchuk Prize and Henri Poincar Prize Everything About Gravity - Proceedings Of The Second LeCospa International Symposium Pisin Chen, 2016-12-29 The proceedings of the 2nd LeCospa International Symposium Everything about Gravity collects 78 papers contributed by the symposium s Plenary Session and Parallel Session speakers Organizers of the Parallel Sessions have in addition prepared summaries for their own sessions The topics range from quasi local energy in GR in the presence of gravitational radiations a gauge theory perspective of gravity naked black hole firewalls related to the black hole information loss paradox a new theory of spacetime quantization relations between the Schwinger effect and the Hawking radiation and Unruh effect conformal frames in cosmology surprises in nonrelativistic naturalness inflation and tensor fluctuations emergent spacetime for quantum gravity understanding strongly coupled magnetism through holographic principle the detections of dark matter ultra high energy cosmic neutrinos and cosmic rays etc Last but not least the closing remark delivered by John Ellis raised the following question Does cosmological inflation require a modification of Einstein s gravity After 100 years of remarkable success of Einstein s general relativity the development of a successful quantum theory of gravity has become a major goal in physics in the 21st century This volume serves as a valuable reference for scientists who are interested in frontier research topics of gravity **Fourteenth Marcel Grossmann Meeting, The: On Recent Developments In Theoretical And Experimental General Relativity, Astrophysics, And Relativistic Field Theories - Proceedings Of The Mg14**

Meeting On General Relativity (In 4 Parts) Massimo Bianchi, Robert T Jantzen, Remo Ruffini, 2017-10-13 The four volumes of the proceedings of MG14 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 35 morning plenary talks over 6 days 6 evening popular talks and 100 parallel sessions on 84 topics over 4 afternoons Volume A contains plenary and review talks ranging from the mathematical foundations of classical and quantum gravitational theories including recent developments in string theory to precision tests of general relativity including progress towards the detection of gravitational waves and from supernova cosmology to relativistic astrophysics including topics such as gamma ray bursts black hole physics both in our galaxy and in active galactic nuclei in other galaxies and neutron star pulsar and white dwarf astrophysics The remaining volumes include parallel sessions which touch on dark matter neutrinos X ray sources astrophysical black holes neutron stars white dwarfs binary systems radiative transfer accretion disks quasars gamma ray bursts supernovas alternative gravitational theories perturbations of collapsed objects analog models black hole thermodynamics numerical relativity gravitational lensing large scale structure observational cosmology early universe models and cosmic microwave background anisotropies inhomogeneous cosmology inflation global structure singularities chaos Einstein Maxwell systems wormholes exact solutions of Einstein s equations gravitational waves gravitational wave detectors and data analysis precision gravitational measurements quantum gravity and loop quantum gravity quantum cosmology strings and branes self gravitating systems gamma ray astronomy cosmic rays and the history of general relativity

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Modeling Black Hole Evaporation Introduction

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