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Yen Chin Ong

# Evolution of Black Holes in Anti-de Sitter Spacetime and the Firewall Controversy



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# Evolution Spacetime Firewall Controversy Springer

**Robert B. Mann**



## **Evolution Spacetime Firewall Controversy Springer:**

**Evolution of Black Holes in Anti-de Sitter Spacetime and the Firewall Controversy** Yen Chin Ong, 2015-11-27 This thesis focuses on the recent firewall controversy surrounding evaporating black holes and shows that in the best understood example concerning electrically charged black holes with a flat event horizon in anti de Sitter AdS spacetime the firewall does not arise The firewall which surrounds a sufficiently old black hole threatens to develop into a huge crisis since it could occur even when spacetime curvature is small which contradicts general relativity However the end state for asymptotically flat black holes is ill understood since their curvature becomes unbounded This issue is avoided by working with flat charged black holes in AdS The presence of electrical charge is crucial since black holes inevitably pick up charges throughout their long lifetime These black holes always evolve toward extremal limit and are then destroyed by quantum gravitational effects This happens sooner than the time required to decode Hawking radiation so that the firewall never sets in as conjectured by Harlow and Hayden Motivated by the information loss paradox the author also investigates the possibility that monster configurations might exist with an arbitrarily large interior bounded by a finite surface area Investigating such an object in AdS shows that in the best understood case such an object much like a firewall cannot exist

**Application of New Cybernetics in Physics** Oleg Kupervasser, 2017-06-28 Application of New Cybernetics in Physics describes the application of new cybernetics to physical problems and the resolution of basic physical paradoxes by considering external observer influence This aids the reader in solving problems that were solved incorrectly or have not been solved Three groups of problems of the new cybernetics are considered in the book a Systems that can be calculated based on known physics of subsystems This includes the external observer influence calculated from basic physical laws ideal dynamics and dynamics of a physical system influenced even by low noise observable dynamics b Emergent systems This includes external noise from the observer by using the black box model complex dynamics external noise from the observer by using the observer's intuition unpredictable dynamics defining boundaries of application of scientific methods for system behavior prediction and the role of the observer's intuition for unpredictable systems c Methods for solution of basic physical paradoxes by using methods of the new cybernetics the entropy increase paradox Schrödinger's cat paradox wave package reduction in quantum mechanics the black holes information paradox and the time wormholes grandfather paradox All of the above paradoxes have the same resolution based on the principles of new cybernetics Indeed even a small interaction of an observer with an observed system results in their time arrows alignment synchronization and results in the paradox resolution and appearance of the universal time arrow Provides solutions to the basic physical paradoxes and demonstrates their practical actuality for modern physics Describes a wide class of molecular physics and kinetic problems to present semi analytical and semi qualitative calculations of solvation flame propagation and high molecular formation Demonstrates the effectiveness in application to complex molecular systems and other many component objects Includes numerous illustrations to support the

text     *Black Holes: Thermodynamics, Information, and Firewalls* Robert B. Mann, 2015-03-05 This book reflects the resurgence of interest in the quantum properties of black holes culminating most recently in controversial discussions about firewalls On the thermodynamic side it describes how new developments allowed the inclusion of pressure volume terms in the first law leading to a new understanding of black holes as chemical systems experiencing novel phenomena such as triple points and reentrant phase transitions On the quantum information side the reader learns how basic arguments undergirding quantum complementarity have been shown to be flawed and how this suggests that a black hole may surround itself with a firewall a violent and chaotic region of highly excited states In this thorough and pedagogical treatment Robert Mann traces these new developments from their roots to our present day understanding highlighting their relationships and the challenges they present for quantum gravity

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