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Black Hole Information Paradox in JT Gravity

The black hole information paradox presents a fundamental tension between general relativity and quantum mechanics. Traditional approaches, such as quantum field theory in curved spacetime, suggest information loss due to Hawking radiation. However, these models neglect crucial quantum gravitational effects. In this talk, we explore the information paradox within the framework of Jackiw-Teitelboim (JT) gravity in 1+1 dimensions, a simplified yet powerful model for quantum gravity.

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