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## The Price of Curiosity: Information Recovery in de Sitter Space

*Tuesday, November 23, 2021 11:15 AM (20 minutes)*

Is it possible for a static patch observer in de Sitter space to recover information that lies beyond their de Sitter horizon by collecting Gibbons-Hawking radiation? (How) will back-reaction interfere with their experiment? In this talk I will discuss insights regarding information recovery in de Sitter space obtained by utilizing the so-called island prescription, which has been used to shed new light on the information paradox for black holes utilizing quantum extremal surfaces. Effects of back-reaction are modeled by studying two-dimensional semi-classical models of de Sitter space. One finds that the observer's curiosity comes at a price, which turns out to be essential for evading quantum cloning paradoxes. I will also discuss further implications such as a connection to de Sitter holography and scrambling times.

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