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Recent Advancements in cavity controlled Quantum Field effects

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The idea of judicious selection of boundary conditions has been recently advanced to meaningfully enhance some low cross section quantum field theoretic events. In this talk, we will discuss some recent proposals of proper selection of mode functions to identify and amplify many interesting effects like acceleration radiation, Unruh thermality, Entanglement harvesting and Field-Field interactions. Such studies advocate the idea of achieving precision boundary conditions as a potential replacement of extreme conditions in the attempts of realizing these interesting theoretical predictions.

Primary author: LOCHAN, Kinjalk (IISER, Mohali)

Presenter: LOCHAN, Kinjalk (IISER, Mohali)

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