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Deriving on-shell open string field amplitudes without using the Feynman rule

Thursday, 9 May 2019 14:30 (30 minutes)

We present a series of new gauge invariant quantities in Witten's open string field theory. They are defined against a set of open-string states which satisfy the physical state condition around a classical solution. We discuss that, for known classical solutions, these gauge invariant quantities compute the on-shell tree-level scattering amplitudes on a D-brane configuration represented by the classical solution. (Based on collaborative work with H. Matsunaga)

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Session Classification: Talks