

# International Conference on String Field Theory and String Perturbation Theory



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

*Thursday, May 9, 2019 2:30 PM (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)

**Presenter:** MASUDA, Toru

**Session Classification:** Talks