

# International Conference on String Field Theory and String Perturbation Theory



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## Scattering Amplitudes from Intersection Theory

*Wednesday, 8 May 2019 14:30 (30 minutes)*

It has long been known that intersection theory on the moduli space of punctured Riemann surfaces computes all observables in the two-dimensional quantum gravity. It is natural to ask whether interacting theories could also admit a similar description. In the genus-zero case we construct a twisted version of intersection theory on the moduli space and propose that it gives rise to tree-level scattering amplitudes in a range of quantum field theories. We present recursion relations for intersection numbers on the natural fibration of moduli spaces.

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**Session Classification:** Talks