

Light-ray OPE in QCD

Monday, 2 November 2020 05:00 (1 hour)

Light-ray operators play an important role in various areas of physics and, in particular, are natural language for an interesting class of observables in collider physics, including energy-energy correlator (EEC). Similar to operator product expansion (OPE) of local operators, OPE of light-ray operators governs the collinear behavior of these observables. In this talk, I will first briefly review Hofman and Maldacena's basic idea about Conformal Collider Physics and recent development of light-ray OPE in conformal field theory. In the second part, I will describe the application of light-ray OPE in perturbative QCD and how it helps us understand jet substructures.

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Session Classification: 相空间积分