Contribution ID: **67** Type: **not specified**

An unexpected possible extraction of \alpha_s using EEC in the post-confinement region

Friday, 17 April 2026 19:55 (25 minutes)

We present precision predictions for the quantum scaling of the post-confinement plateau of the energy-energy correlator (EEC). The analysis follows the light-ray operator product expansion (OPE) description of the near-side EEC, in which the plateau is controlled by the leading $J = 5$ channel and its timelike anomalous dimension. We assess the impact of the plateau prediction on possible α_s extraction and find that the present experimental setup already supports a meaningful sensitivity study.

Primary author: LIU, Xiaohui (Beijing Normal University)

Presenter: LIU, Xiaohui (Beijing Normal University)

Session Classification: Special Evening Plenary Session 1: Frontier Probes (Room 567, Chair Huai-Ke Guo)