

Colour Reconnection from Soft Gluon Evolution

Thursday, 18 July 2019 15:40 (20 minutes)

We consider soft gluon evolution at the amplitude level to expose the structure of colour reconnection from a perturbative point of view. Considering the cluster hadronization model and an universal Ansatz for the soft anomalous dimension we find strong support for geometric models considered earlier. We also show how reconnection into baryonic systems arises, and how larger cluster systems evolve. Our results provide the dynamic basis for a new class of colour reconnection models for cluster hadronization.

Primary author: SIODMOK, Andrzej (IFJ PAN)

Presenter: SIODMOK, Andrzej (IFJ PAN)

Session Classification: pQCD/MC

Track Classification: PQCD/MC