Contribution ID: **51** Type: **not specified**

Azimuthal asymmetries as the probe of nuclear matter at EIC

Friday, 3 June 2016 14:00 (30 minutes)

Nuclear dependence of transverse momentum dependent parton distributions and azimuthal asymmetries in SIDIS off polarized nuclear targets are studied. Multiple gluon interaction, which is responsible for gauge link, contain information of nuclear dependence of parton distributions. We show the suppression of azimuthal asymmetries for eA SIDIS relative to that of eN case, and the suppression factor is related to the jet quenching parameter ˆq. With ˆq extracted from other experiments, we present a numeric estimate of the size of the suppression of azimuthal asymmetries which will be helpful for the future experimental study of SIDIS at EIC.

Presenter: SONG, Yu-kun

Session Classification: Talks