

XXVIII International Workshop on Deep-Inelastic Scattering and Related Subjects



Contribution ID: 366

Type: **Recorded Flash Talk**

Tomography of light mesons in light-cone quark model

We investigate the tomographical structure of pion and kaon in light cone quark model (LCQM). In particular, we study the parton distribution amplitude (PDA) of pion and kaon. We obtain the parton distribution function (PDF) and the generalized parton distributions (GPDs) of the pion and kaon. The valence quark PDA and PDF of pion, after QCD evolution, are found to be consistent with the data from the E791 and the E615 experiments at Fermilab, respectively. Further, we investigate the transverse momentum distributions (TMDs) of pion and kaon. We also discuss the unpolarized TMD evolution for pion and kaon in this model.

Primary authors: DAHIYA, Harleen (Dr. B.R. Ambedkar National Institute of Technology, Jalandhar); Ms KAUR, Satvir; Dr KUMAR, Narinder; Dr MONDAL, Chandan; Dr LAN, Jianshan

Presenter: DAHIYA, Harleen (Dr. B.R. Ambedkar National Institute of Technology, Jalandhar)

Session Classification: Recorded Flash Talk

Track Classification: Structure Functions and Parton Densities