



Contribution ID: 226

Type: **Poster submission**

Study of quark GTMDs for kaon in light-cone quark model

Thursday 8 August 2019 10:40 (20 minutes)

Summary

We investigate the generalized transverse momentum dependent quark distributions (GTMDs) for kaon in light-cone quark model. The leading twist GTMDs are evaluated from the quark-quark correlator by considering the unpolarized, longitudinally-polarized and transversely-polarized quark in unpolarized kaon. For the evaluation of GTMDs, the overlap representation of light-cone wavefunctions is used. We observe the variation of GTMDs with longitudinal momentum fraction (x) at different values of quark transverse momentum.

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Session Classification: Poster Session (Thu/Fri)