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Relations between generalized parton distributions and transverse momentum dependent parton distributions

Thursday 2 December 2021 14:20 (15 minutes)

In this talk, I would like to present some trivial and non-trivial relations between transverse momentum-dependent parton distributions (TMDs) and generalized parton distributions (GPDs) in a light-front quark-diquark model motivated by soft-wall AdS/QCD. And I will show that the relation between the Sivers function and GPD E^q can be obtained in terms of the Lensing function and I will compare our LFQDQ model relations with different models. And if time permits then I'll also discuss the decomposition of the quark Orbital Angular Momentum. And I'll show the results for the kinetic and canonical OAM for the quarks.

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