Contribution ID: **77**   Type: **not specified**

Integrated and unintegrated PDFs and GPDs from effective two-body light-cone wave functions

Monday, 21 September 2015 11:45 (30 minutes)

We introduce a classification scheme for parton distribution models and we model generalized parton distributions (GPDs), their form factors, and parton distribution functions (PDFs), integrated and unintegrated ones, in terms of unintegrated double distributions that are obtained from the parton number conserved overlap of effective light-cone wave functions. For a so-called "spherical" model we present general expressions for all twist-two related non-perturbative quantities in terms of one effective light-cone wave function, including chiral-odd GPDs. We also discuss the Regge improvement of such quark models from the s-channel point of view and study the relations between zero-skewness GPDs and unintegrated PDFs on a more general ground.

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Session Classification: 2.