



Contribution ID: 54

Type: **not specified**

# From Light-Front Wave Functions to Parton Distribution Functions

*Friday, 29 January 2021 10:40 (10 minutes)*

Parton Distribution Functions have been a fundamental part in the calculation of experimental quantities that involve hadrons. Current understanding comes from experimental fits to data and other techniques such as Lattice QCD. We propose an alternative way of calculating the Parton Distribution Functions directly from the theory via Light-Front Wave Functions, integrated directly from the Bethe-Salpeter Wave Function. The mathematical details and prescriptions are developed for a simple scalar model to be later applied to QCD.

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