



Contribution ID: 175

Type: **not specified**

## Schwinger based QCD formulation's derivation of elastic pp scattering

*Thursday, 22 August 2019 18:30 (30 minutes)*

Using previously described functional techniques for some non-perturbative, gauge invariant, renormalized QCD processes, a simplified version of the amplitudes—in which forms akin to Pomerons naturally appear—provides fits to ISR and LHC-TOTEM pp elastic scattering data.

Those amplitudes rely on a specific function  $\phi(b)$  which describes the fluctuations of the transverse position of quarks inside hadrons.

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**Session Classification:** Workshop on QCD