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Schwinger based QCD formulation's derivation of elastic pp scattering

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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 $\varphi(b)$ which describes the fluctuations of the transverse position of quarks inside hadrons.

Additional comments

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