



Contribution ID: 1054

Type: Oral (Non-Student) / orale (non-étudiant)

Diffractional vector meson production using a holographic AdS/QCD light-front wavefunction

Thursday 16 June 2016 10:15 (15 minutes)

We use the colour dipole formalism to compute the rate for diffractive phi meson production using a holographic AdS/QCD wavefunction for the phi. We use a dipole cross-section with parameters fitted to the most recent and very precise 2015 HERA data on the proton's structure function. We compare our predictions on diffractive phi production to the data collected at the HERA collider and find good agreement.

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Session Classification: R1-3 Advances in Nuclear Physics and Particle Physics Theory (DTP-DNP-PPD) / Progrès en physique nucléaire et en physique des particules théoriques (DPT-DPN-PPD)

Track Classification: Particle Physics / Physique des particules (PPD)