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

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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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