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Universality of Factorization Breaking in Diffraction

Results on factorization breaking in soft and hard hadron-hadron collisions, photo-production and deep inelastic scattering are shown to exhibit a universal behavior in a (renormalization) model where diffraction is mediated by a saturated colorless exchange with vacuum quantum numbers. Formulas for cross sections and final state event properties are obtained, and a scheme is proposed for implementing them into a simulation that can be extrapolated to LHC energies and beyond.

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