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Single and double inclusive hadron production in Ultra-Peripheral Collisions: Next to Leading Order Corrections

Wednesday 13 December 2023 10:00 (30 minutes)

We calculate the Next to Leading Corrections to single and double inclusive hadron production in Deep Inelastic Scattering (DIS) and in Ultra-Peripheral Collisions (UPC) using the Color Glass Condensate effective theory of QCD at small x. We argue that single inclusive hadron production where momentum of the produced hadron is of the order of Saturation scale provides a sensitive probe of saturation dynamics. We discuss applications to UPC events in the LHC.

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