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Particle Production in Hybrid Formalism at NLO

Thursday, 10 September 2015 09:30 (30 minutes)

We reconsider the perturbative next-to-leading calculation of the single inclusive hadron production in the framework of the hybrid formalism, applied to hadron production in proton-nucleus collisions. We introduce the explicit requirement that fast fluctuations in the projectile wave function which only exists for a short time are not resolved by the target.This Ioffe time cutoff also strongly affects the next-to-leading order terms. Our final expressions are unambiguous and do not coincide at next-to-leading order with the results available in the literature.

Primary author: ALTINOLUK, Tolga

Presenter: ALTINOLUK, Tolga

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