

Small-x evolution beyond the eikonal approximation

Tuesday, 24 May 2016 15:30 (20 minutes)

Following the recent studies in the effects of next-to-eikonal and next-to-next-to-eikonal propagation in high-energy proton-nucleus collisions, we calculate the corresponding corrections to small-x evolution. These corrections arise explicitly both from non-eikonal propagation of the softer gluon fluctuations, and from emission/absorption of gluons in the projectile wave function while inside the nuclear target. We show for what kinematical regions and which observables these corrections can be important.

Collaboration

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Session Classification: Parallel