Semihard rescatterings and minijets in ultrarelativistic heavy-ion collisions

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Abstract

Minijet production in ultra-relativistic heavy-ion collisions is discussed by taking explicitly into account semi-hard parton rescatterings. An interesting outcome is that the dependence of some observables on the cut-off that separates soft and hard interactions becomes much smoother after rescatterings are included. At LHC energies rescatterings we find sizeable effects on global characteristics of the nuclear collision like, e.g., the initial densistiy and transverse energy density of minijets.

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