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Jet quenching in pp and pA collisions

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We study jet quenching in pp and pA collisions in the scenario with formation of a mini quark-gluon plasma.

We find a significant suppression effect. For light hadrons at $p_T \sim 10$ GeV we obtained the reduction of the spectra by $\sim [20 - 30, 25 - 35, 30 - 40]\%$ in pp collisions at $\sqrt{s} = [0.2, 2.76, 7]$ TeV.

We also give predictions for modification of the photon-tagged and inclusive jet fragmentation functions in high multiplicity pp events. We show that for underlying pp events with $dN_{ch}/d\eta \sim 20 - 60$ the medium effects lead to a considerable modification of the jet fragmentation functions.

Primary author: ZAKHAROV, Bronislav (Landau Institute)

Presenter: ZAKHAROV, Bronislav (Landau Institute)

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