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Jet quenching from QCD evolution

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Recently an effective field theory for jets in the dense QCD matter has been developed and applied for jet quenching phenomenology. This Soft Collinear Effective Theory with Glauber gluons allows for calculation of medium-induced splitting kernels beyond the approximations made in the traditional energy loss. In this talk we review such results and their incorporation in the QCD evolution equations in order to consistently go beyond the traditional energy loss approach for jet quenching phenomenology. RHIC and LHC data will be compared with the predictions of the new method as well as the energy loss approach.

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