

Investigating Jet Quenching on the Lattice

Monday, 4 November 2013 17:20 (20 minutes)

Due to the dynamical, real-time, nature of the phenomenon, the study of jet quenching via lattice QCD simulations is not straightforward. In this talk, however, it will be shown how it is possible to extract information about the momentum broadening of a hard parton moving in the quark-gluon plasma, from lattice simulations. After discussing the basic idea (originally proposed by Caron-Huot), we will present a recent study, in which we estimated the jet quenching parameter non-perturbatively, from the lattice evaluation of a particular set of gauge-invariant operators.

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Session Classification: Heavy Flavor Production and Quarkonia

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