



**HEP 2013
Stockholm
18-24 July 2013**



Contribution ID: 731

Type: **Talk presentation**

Jet quenching in a strongly interacting plasma - A lattice approach

Saturday, 20 July 2013 11:23 (23 minutes)

The phenomenon of jet quenching, related to the momentum broadening of a high-energy parton, provides important experimental evidence for the production of a strongly coupled, deconfined medium in heavy-ion collisions. Its theoretical description has been addressed in a number of works, both perturbatively and non-perturbatively (using the gauge-gravity duality). In this contribution, following a proposal by Caron-Huot, we discuss a novel approach to this problem, enabling one to extract non-perturbative information on this real-time phenomenon from simulations on a Euclidean lattice.

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Session Classification: Non-perturbative QFT and String Theory

Track Classification: Non-perturbative QFT and String Theory