



Contribution ID: 83

Type: not specified

## A hybrid strong/weak coupling approach to jet quenching

*Friday, 13 September 2013 15:10 (20 minutes)*

We study the interaction of high energy QCD jets with strongly coupled quark gluon plasma. We explore a hybrid approach, in which the high virtuality splitting processes that dominate the QCD shower proceed as in vacuum while the partons of the shower interact with the system as dictated by strongly coupled computations via the AdS/CFT correspondence. We discuss the Monte Carlo implementation of such approach and explore different implementation of the strongly coupled dynamics.

**Primary authors:** Mr PABLOS, Daniel (Universitat de Barcelona); GULHAN, Doga Can (Massachusetts Inst. of Technology (US)); TEIXEIRA DE ALMEIDA MILHANO, Guilherme (Instituto Superior Tecnico (PT)); Dr TEIXEIRA DE ALMEIDA MILHANO, Guilherme (Universidade de Santiago de Compostela (ES)); CASALDERREY SOLANA, Jorge (University of Barcelona (ES)); RAJAGOPAL, Krishna (MIT)

**Presenter:** Mr PABLOS, Daniel (Universitat de Barcelona)

**Session Classification:** Parallel talks - Session 3B