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Heavy flavours jet substructure

In this talk we will focus on hadronic jets initiated by heavy flavours. In particular, we will examine different observables to study the dead cone effect, i.e. the suppression of collinear QCD radiation around massive quarks, and to investigate the sensitivity of different observable definitions to the presence of quark masses.

Our results are based on all-order resummed predictions at next-to-leading logarithmic (NLL) accuracy which provide a more precise description of the transition near the dead-cone threshold. Furthermore, we will compare our analytical findings with Monte Carlo predictions.

Giorno preferito

Primary authors: GHIRA, Andrea (Università di Genova and Istituto Nazionale di Fisica Nucleare (INFN) sezione di Genova); MARZANI, Simone (Istituto Nazionale di Fisica Nucleare); DHANI, Prasanna Kumar (IFIC, CSIC-UV); FEDKEVYCH, Oleh (Istituto Nazionale di Fisica Nucleare)

Presenter: GHIRA, Andrea (Università di Genova and Istituto Nazionale di Fisica Nucleare (INFN) sezione di Genova)