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Nuclear modification factor of D meson in PbPb collisions at 2.76 TeV with CMS

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The measurement of D meson production is a powerful tool to investigate the c-quark in-medium energy loss. In this poster, we will present the measurement of the nuclear modification factor of D^0 mesons as a function of transverse momentum and centrality. The reconstruction of D meson and the combinatorial background rejection are detailed. The prospects of heavy flavor meson analysis with Run II data are also discussed.

On behalf of collaboration:

CMS

Primary author: LEE, Yen-Jie (Massachusetts Inst. of Technology (US))

Presenter: LEE, Yen-Jie (Massachusetts Inst. of Technology (US))

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