

Abstract Submitted  
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**Study of in-medium modification of dijets in PbPb collisions at 5.02 TeV<sup>1</sup>** JUSSI VIINIKAINEN, Univ of Illinois - Chicago, CMS COLLABORATION — Jet quenching is one of the well-established signatures of the quark-gluon plasma produced in heavy ion collisions. Studies of energy balance for back-to-back hard probes, as well as medium-induced modifications to jet shapes and fragmentation functions, provide important experimental constraints for theoretical understanding of QGP properties. Using large sample of dijet events from 5.02 TeV PbPb and pp collisions recorded by CMS, we study quenching effects differentially with respect to dijet momentum balance. We use jet-charged particle correlations to assess medium-induced modifications to jet substructures on each side of the dijet, and correlate the observed effects with medium response to dijet propagation.

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