

10th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions



Contribution ID: 193

Type: Oral Presentation

Fragmentation of J/ψ -jets in PbPb collisions with the CMS experiment

Thursday, June 4, 2020 1:50 PM (20 minutes)

J/ψ mesons have been found to be produced with more jet activity than predicted by models in pp collisions at the LHC. J/ψ production has long been known to be modified in nuclear collisions, via Debye screening, as well as by other effects. Indirect evidence, in particular, the non-vanishing v_2 of J/ψ at large transverse momentum, however, suggests that jet quenching may also play an important role in J/ψ suppression. We present the first measurement of reconstructed J/ψ -jets in heavy-ion collisions. We measure the jet fragmentation function of jets containing a J/ψ meson, to study the dependence of quenching effects on the degree of associated hadro-production inside the jet.

Collaboration (if applicable)

CMS

Track

Heavy Flavor and Quarkonia

Contribution type

Contributed Talk

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Session Classification: Parallel

Track Classification: Heavy Flavor and Quarkonia