

Photo production of dijets in ultra-peripheral PbPb collisions at 5.02 TeV with CMS

Friday, 6 July 2018 20:15 (15 minutes)

Ultra-peripheral collisions (UPCs) of heavy ions involve long-range interactions at impact parameters larger than the sum of their radii, for which the hadronic interactions are largely suppressed. In such UPC events, the jets can be produced in processes such as gamma-nucleus interactions. The study of di-jet photoproduction by gamma-nucleus interactions at high energy offer a unique opportunity to study hadron structure and low Bjorken- x gluon dynamics. The first measurement of photonuclear jets in ultra-peripheral PbPb collisions using data taken in 2015 will be presented, using the CMS detector at the LHC.

Primary author: MEYER, Arnd (Rheinisch Westfaelische Tech. Hoch. (DE))

Presenter: KIM, Beomgon (Korea University (KR))

Session Classification: POSTER