

Strangeness in Quark Matter 2019



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Bottomonium production in pp, pPb and PbPb collisions at 5.02 TeV with the CMS detector

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Measurements of bottomonium production are reported for the $\Upsilon(1S)$, $\Upsilon(2S)$, and $\Upsilon(3S)$ mesons in pp, pPb and PbPb collisions at 5.02 TeV. The analysis was performed as a function of rapidity and transverse momentum. In addition, the dependence on the event activity and collision centrality is studied in pPb and PbPb collisions, respectively. New results of the upsilon production in pPb collisions will be presented, compared with the results from PbPb collisions. In this presentation, the results are discussed in terms of the 'cold nuclear matter' effects in pPb collisions and sequential melting scenario in dense partonic matter, as well as the effect from recombination of uncorrelated quarks. The results are also compared with theory models, which can help to improve and constrain the theoretical calculations.

Collaboration name

CMS

Track

Heavy Flavour

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