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Bottomonium production in pp, pPb, and PbPb collisions with CMS

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The three Y states (1S, 2S, 3S) were measured separately using the Compact Muon Solenoid (CMS) experimental apparatus via their dimuon decays in pp and pPb collisions, in the rapidity range |y|<1.9 in the centre-of-mass of the collision. The datasets used in the analysis correspond to recorded integrated luminosities of about 31/nb (pPb) and 5.1/pb (pp), collected in 2013 by the CMS experiment at the LHC, at a centre-of-mass energy per nucleon-nucleon pair of 5.02 TeV and 2.76 TeV respectively. Results of the production ratios of the excited states, Y(2S) and Y(3S), with respect to the ground state Y(1S) will be presented in the context of the PbPb results.

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