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Υ production in hadron collisions at forward rapidity with ALICE at the LHC

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Ultrarelativistic heavy-ion collisions produce strongly interacting matter at high temperature and energy density. Under these extreme conditions a deconfined partonic state, called Quark-Gluon Plasma (QGP), is formed. The measurement of quarkonia (charmonia and bottomonia) in AA collisions is expected to provide essential information about the QGP properties. In pp collisions high precision data serve as crucial test for several competing models of quarkonium hadroproduction and provide the reference for the measurements in heavy-ion collisions, while pA collisions are useful to disentangle hot and cold nuclear
matter effects. In the ALICE Muon Spectrometer, bottomonium production can be measured at forward rapidity ($2.5 < y < 4$) and down to $p_{\rm T} = 0$ via the dimuon decay channel. The latest results on Υ production in pp, Pb-Pb and p-Pb collisions are discussed and compared to various theoretical predictions.

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