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Quarkonium production: results from LHC run-1

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The study of quarkonium production in nuclear collisions is an essential tool to investigate the properties of the medium. After extended investigations at SPS and RHIC energies, the LHC experiments have collected, during run-1, a wealth of new data on charmonium and bottomonium production in both Pb-Pb and p-Pb collisions. Among other results, strong indications for the observation of charm quark recombination and for the sequential suppression of the Upsilon resonances have been obtained. In this talk I will review the LHC results, with an emphasis on what we learned from the comparison with RHIC data and with theoretical models, and on remaining open questions. Finally, prospects for the LHC run-2, now in progress, will be shortly presented.

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