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Quarkonia in nuclear collisions

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Quarkonium has been regarded as one of the golden probes to identify the phase transition from confined hadronic matter to
the deconfined quark-gluon plasma (QGP) in heavy-ion collisions. Recent theoretical developments in the study of the J/ψ
and Υ families at the energies of Large Hadron Collider (LHC) are reviewed. In particular, the possible implications related to
the production and propagation of quarkonia in proton-proton, proton-nucleus and nucleus-nucleus collisions are discussed. A special
emphasis is put on the excited states such as the ψ', Y(2S) and Y(3S).

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