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## Charmonium production in heavy ion collisions analysis

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At very high energy densities, matter undergoes a phase transition from confined states called hadrons to a soup of their constituents, called the quark gluon plasma. The QGP can be artificially produced in heavy ion collisions. It is studied using different probes, one of which is charmonium states. The talk will show results from the CMS collaboration at CERN regarding charmonium production in heavy ion collisions.

**Presenter:** DIAB, Batoul (Centre National de la Recherche Scientifique (FR))

**Session Classification:** Hadronic physics