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# Quarkonium production in dilute and dense systems

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The unprecedented collision energies at LHC allow for a detailed investigation of quarkonium production in pp, p-Pb and Pb-Pb collisions. Since the time scales between the production of heavy quarks and their hadronisation are well separated, quarkonia are a valuable messenger from the hot and dense matter which can be created in heavy-ion collisions. Recent results indicate that also high-multiplicity pp or p-Pb collisions exhibit nuclear and collective effects, reminiscent of those in heavy-ion collisions. Quarkonia provide information on these effects from the perspective of hard processes.
We will present the most recent results on quarkonium production in pp, p-Pb and Pb-Pb collisions measured by the ALICE detector at mid- and forward rapidity. Emphasis will be placed on the multiplicity dependence of J/$\psi$ production in high-multiplicity triggered pp collisions. The results are compared to available theoretical models.

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