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Open heavy-flavour and quarkonium measurements in heavy-ion collisions at the LHC

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The LHC heavy-ion physics program aims at investigating the properties of strongly interacting matter in extreme conditions of temperature and energy density where the formation of the Quark Gluon Plasma (QGP) is expected. In high-energy heavy-ion collisions, heavy quarks and quarkonium states are regarded as efficient probes of the properties of the QGP as they are created on a short time scale with respect to that of the QGP, thus being sensitive to the whole evolution of the system.

An overview of the main results on open heavy-flavour and quarkonium measurements in Pb-Pb (and p-Pb) collisions at the LHC will be presented and the results will be compared to theoretical models.

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