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## Quark Gluon Plasma at LHCb

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Quarkonia, bound states between a heavy quark and its own antiquark, are of particular interest when it comes to probing the Quark Gluon Plasma (QGP), a very special state of matter believed to have been in existence during the first moments after the Big-Bang. This state of matter can be recreated in high energy heavy ion collisions and one of the ways it can be studied, is through the observation of how the quarkonia production is affected when the QGP is present, specifically, the quarkonia suppression. At the LHCb experiment, we can access a unique energy regime, that will allow us to further understand the QGP. Current status and prospects will be presented.

### Field

Particle physics/LHCb/QGP

### Language

English

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