

## Underlying event and correlation results from CMS

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The underlying event activity in pp collisions, measured using events with a leading charged particle or a leading charged particle jet, lends credence to multiparton interactions. The activity is measured independently in the two halves of the region transverse to the leading object, containing the maximum and minimum activities. Complementary to the underlying event analysis, the observation of long-range two-particle correlations in high energy heavy ion collisions opens opportunities to explore novel QCD dynamics in quark gluon plasma (QGP), the hot dense matter created in heavy ion collisions. We present selected results of the underlying event activity and particle correlations in various collision systems.

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