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## Measurements of the underlying event activity and double parton scattering processes using the CMS detector

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Recent results on the double parton scattering studies and measurement of the underlying event activity, performed using proton-proton collisions data collected using the CMS detector are presented. Comparisons to previous results at different center of mass energies are also reported. Latest tests of double parton scattering, underlying event tunes, minimum bias, and diffraction are made by comparing the CMS Run I and Run II data with the latest theoretical predictions. Studies used to derive and test the new CMS underlying event tune, obtained through the jet kinematic and global event variables in top quark-antiquark events, are also described.

### Experimental Collaboration

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**Session Classification:** QCD and hadronic physics

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