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Searches for Double Parton Scattering at the LHC

Searches for the kinematic selection criteria for
estimation of multiple parton interaction fraction in pp collisions
at \sqrt{s} = 14 TeV are presented using the eikonalization of the
cross section implemented in the HERWIG++ MC generator. W^+ boson
pair production is studied in the muon decay channel. Four types of
the main background processes are discussed and analyzed. These
include W^+W^+jj, W^+Z, ZZ, and ttbar productions of the
positively charged muon pairs. The double parton scattering
contribution to the requested di-muon final state is found to be
around 25 per cent with the production cross section of 0.94 fb.

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