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Measurement of double-parton interactions in W+2 jets events with the CMS detector

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Double parton scattering (DPS) is studied in proton-proton collisions at a centre-of-mass energy of 7 TeV, using events with a W boson decaying into a muon and neutrino and the presence of two associated jets in the final state. The data sample corresponds to an integrated luminosity of 5 /fb, collected by the CMS detector at the Large Hadron Collider. Observables sensitive to double parton scattering are shown, corrected for detector effects and selection efficiencies. The fraction of double parton scattering and the effective cross section are also measured and compared to other DPS measurements.

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