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Multiboson measurements and Exclusive W^+W^- production and constraints on Anomalous Quartic Gauge Couplings measured with the CMS experiment

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A search for exclusive or quasi-exclusive W^+W^- production induced by photon-photon exchange in pp collisions at $\sqrt{s}=8$ TeV is reported using data corresponding to an integrated luminosity of 19.7 fb⁻¹. Events are selected by requiring the presence of an electron-muon pair with large transverse momentum $p_T > 30$ GeV and no associated charged particles detected from the same vertex. The observed yields and kinematic distributions are compatible with the Standard Model prediction for exclusive and quasi-exclusive W^+W^- production. The dilepton transverse momentum spectrum is studied for deviations from the Standard Model, and the resulting upper limits are compared to predictions assuming anomalous quartic gauge couplings.

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