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Measurements of WW and ZZ production and anomalous trilinear gauge couplings with the D0 detector

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We present results of diboson production studies with the D0 detector at $\sqrt{s} = 1.96$ TeV, including measurements of the WW cross section in the $l\nu l'\nu'$ channels and the ZZ cross section in the $lll'l'$ ($l, l' = e, \mu$) channels using data corresponding to integrated luminosity of 9.7 fb⁻¹. We also present measurements of anomalous WW γ and WWZ trilinear gauge boson couplings from WW and WZ production with lepton plus dijet final states, and a combination of these results with W γ , WW, and WZ production with leptonic final states, yielding the most stringent limits from a hadron collider, as well as the most precise measurements of the W boson magnetic dipole and electric quadrupole moments.

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