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## Central Exclusive Production in $pp^-$ Collisions at CDF II

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We report central exclusive production results studied at the Run II Collider Detector at Fermilab with focus on our recently published paper on the first observation of exclusive  $\gamma\gamma$  production in  $pp^-$  collisions at  $\sqrt{s} = 1.96$  TeV at the Tevatron. In particular, starting from earlier studies by the CDF collaboration, we discuss exclusive dijet, dilepton, Z, J/ $\Psi$  and  $\chi_c$  productions and finally our recent observation of exclusive diphoton production. Whereas the lepton pairs and Z are purely QED processes, the J/ $\Psi$  is produced by photo-production, mediated by photon-pomeron exchange ( $\gamma + IP$ ). The double pomeron exchange producing the exclusive dijet, Charmonium and diphotons via quark-loop is of great interest looking towards the possibilities of finding an exclusive Higgs at the Large Hadron Collider (if it exists). The production mechanism for an exclusive Higgs is similar via a heavy quark-loop with no other particles produced.

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