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**Search for associated production of a single top quark with a W boson** DANIEL NOONAN, University of Kansas, CMS COLLABORATION — A search for the production of a single top quark in association with a W boson in pp collisions using data collected with the CMS experiment at the LHC is presented. The analysis looks for the  $tW$  production decaying into a dilepton final state using a multivariate analysis to separate the signal from the  $t\bar{t}$  background. Evidence is presented based on data collected at a center of mass energy of  $\sqrt{s} = 7$  TeV during 2011, and at  $\sqrt{s} = 8$  TeV during 2012.

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