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Observation of $t\bar{t}Z$ and measurement of $t\bar{t}W$ at CMS

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New measurements of top quark pair production in association with a W or Z boson are presented, using 19.5 fb⁻¹ of 8 TeV pp collision data collected by the CMS experiment at the CERN LHC. Final states with opposite-sign, same-sign, three, and four charged leptons plus b-tagged jets are examined. Signal $t\bar{t}W$ and $t\bar{t}Z$ events are identified by reconstructing the top quark pair, yielding the most sensitive and precise measurements of these processes to date. New limits are also placed on five anomalous dimension-six operators which would affect the $t\bar{t}W$ and $t\bar{t}Z$ cross sections.

Oral or Poster Presentation

Oral

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