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## New top results from D0

*Thursday 7 June 2012 15:30 (20 minutes)*

The D0 detector at the Fermilab Tevatron proton-antiproton collider has recored almost 10 fb<sup>-1</sup> of integrated luminosity at 1.96 TeV. I will present recent precision measurements of various parameters of the top quark sector, which are using a large fraction of this well-understood dataset. In particular, I will highlight the measurement of the forward-backward strong colour charge asymmetry, the world's most precise measurement of the mass of the top quark in dilepton final states, a Tevatron-wide combination of the top quark mass, a novel search for violation of invariance under Lorentz transformations, the first Tevatron-wide combination of the helicity measurements of the W boson in decays of top pairs, the extraction of anomalous couplings, and other measurements.

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**Session Classification:** 4E: (Parallel) Top