Contribution ID: **364** Type: **Oral Presentation**

Precision measurement of the top quark spin correlations at CMS

Thursday 1 August 2019 16:20 (20 minutes)

Talk covers the new result by CMS on the measurement of the full spin density production matrix, which includes measurements of variables sensitive to the top quark spin correlation, polarization and other angular observables. Employs events containing two leptons produced in proton-proton collisions at a center-of-mass energy of 13 TeV. Uses data corresponding to an integrated luminosity of 36/fb to challenge the Standard Model predictions and also to set most stringent limits on chromo-magnetic dipole moments of the top quark.

Author: THIEMAN, Jason Robert (Purdue University (US))

Co-author: JUNG, Andreas (Purdue University (US))

Presenter: THIEMAN, Jason Robert (Purdue University (US))

Session Classification: Top Quark Physics

Track Classification: Top Quark Physics