

Abstract Submitted
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Top pair production, spin correlations and polarized gluon distributions GARY GOLDSTEIN, Tufts Univ — Top-antitop pairs are produced prolifically at the LHC, primarily by gluon fusion. The spin dependences of gluon distributions leave an imprint on the spin correlations of the top pairs. Decays of top pairs through dilepton, single lepton and pure jet channels produce a variety of correlations among the decay products - particles and jets. Combinations of the gluon distributions, either polarized or unpolarized, can be accessed experimentally through angular dependences of decay products.

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