

CP violation in top-quark pair production and decay

Thursday, 14 June 2012 12:10 (25 minutes)

The LHC will produce large numbers of top anti-top quark pairs providing an excellent opportunity to study in detail the properties of the top-quark. A possibility that has not been explored experimentally so far is that of CP violating interactions of the top. We discuss the use of T-odd correlations to extract information on the CP violating couplings of the top-quark at the LHC. We illustrate our discussion with two examples: CP violating anomalous top quark couplings; and CP violation in extended Higgs sectors.

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Session Classification: Top Quark Physics

Track Classification: Top Quark Physics