

**Sensitivity to New High-mass States Decaying to $t\bar{t}$ in Fully Boosted Regime
at a 100~TeV Collider**

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We discuss the sensitivity of a 100 TeV pp collider to heavy particles decaying to top-antitop $t\bar{t}$ final states. This center-of-mass energy, together with an integrated luminosity of 10 ab^{-1} , can produce heavy particles in the mass range of several tens of teraelectronvolts (TeV). A Monte Carlo study has been performed using boosted-top techniques to reduce QCD background for the reconstruction of heavy particles with masses in the range of 8-20 TeV, and various widths. Several detector aspects related to the reconstruction of boosted jets are discussed.