

## Top Quark at 3TeV e+e- collider as gate to new physics

*Tuesday 21 June 2011 16:00 (20 minutes)*

The top quark, as heaviest known particle in the Standard Model, is expected to play a major role in the electroweak symmetry breaking mechanism and/or in many new physics scenarios. In the present work, 3TeV s-channel ttbar events are selected among different background sources and are used to investigate an example of new physics scenario by searching for a Z' gauge boson decaying into dark matter particles. Standard Model data are simulated and reconstructed using the official CLIC CDR production.

**Primary author:** Mr ESPARGILIERE, Ambroise (LAPP-Laboratoire d'Annecy-le-Vieux de Physique des Particules ())

**Presenter:** Mr ESPARGILIERE, Ambroise (LAPP-Laboratoire d'Annecy-le-Vieux de Physique des Particules ())

**Session Classification:** Contributed Talks

**Track Classification:** Particle Factories, Accelerator Physics and future TeV scale colliders