

Journées de Rencontre Jeunes Chercheurs 2023



ID de Contribution: 63

Type: Non spécifié

Search for displaced top quark in the CMS tracker

mercredi 25 octobre 2023 11:30 (30 minutes)

My thesis subject aims to search for long-lived decays of new massive particles in the Compact Muon Solenoid (CMS) experiment at the Large Hadron Collider (LHC). CMS is one of the four main experiments at the LHC, where high energy proton-proton collisions are produced. New long-lived particles are predicted in several extensions of the Standard Model (SM). In the model considered, R-parity violated Minimal SuperSymmetric Model (RPV-MSSM), the lightest SuperSymmetric particle (LSP) is long-lived and decays into SM particles. Therefore, the present goal of my thesis is to reconstruct the displaced vertex emerging from the decay of the LSP and set selections to reduce the main backgrounds

Auteur principal: VAUCELLE, Paul (IPHC)

Orateur: VAUCELLE, Paul (IPHC)

Classification de Session: Beyond Standard Model

Classification de thématique: Beyond Standard Model