## LHCP 2013 - First Large Hadron Collider Physics Conference



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## Searches for long-lived particles and lepton-jets with the ATLAS detector

Several extensions of the Standard Model predict the existence of massive long-lived particles, some of these postulate the existence of a hidden sector of particles. We report on searches for weakly-interacting long-lived particles decaying to collimated lepton-jets far away from the interaction point, and for production of multicharged particles. The talk presents the final results of analyses using data recorded in 2011 at sqrt(s)=7 TeV centre-of-mass energy by the ATLAS experiment at the LHC.

**Author:** FERRARI, Pamela (NIKHEF (NL))

Presenter: FERRARI, Pamela (NIKHEF (NL))