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

Wednesday 24 April 2013 15:00 (20 minutes)

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.

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