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Search for massive long-lived exotic particles with the ATLAS detector

Monday 4 June 2012 16:00 (1 hour)

A search for massive long-lived charged particles, performed using data recorded from pp collisions at $\sqrt{s} = 7$ TeV collected by the ATLAS detector at the LHC, is presented. The velocity of high momentum particles is measured based on time-of-flight and anomalous ionisation energy loss, and the particle mass is estimated from the measured velocity and momentum. Based on a data sample using the full 2011 data set different combinations of sub-detectors are used to search for of stable gluinos, squarks, and sleptons.

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Collaboration Name
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ATLAS Collaboration

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