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Search for Stable Massive Particles with the ATLAS detector in pp collisions at sqrt(s)=13 TeV

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A search for heavy long-lived charged R-Hadrons is performed using data from proton–proton collisions at sqrt{s} = 13 TeV collected by the ATLAS Experiment at the Large Hadron Collider at CERN. The analysis utilises both time-of-flight and specific-ionisation energy-loss measurements to derive the velocity and subsequently the mass of the particles and places upper cross-section limits in a mass range from 600 GeV to 3000 GeV as well as mass exclusion limits for stable R-Hadrons.

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