



Search for Dark Matter with ATLAS: Using Events with a Highly Energetic Jet and Missing Transverse Momentum in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV (Springer Theses)

Ruth Pöttgen

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This thesis describes in detail a search for weakly interacting massive particles as possible dark matter candidates, making use of so-called mono-jet events. It includes a detailed description of the run-1 system, important operational challenges, and the upgrade for run-2. The nature of dark matter, which accounts for roughly 25% of the energy-matter content of the universe, is one of the biggest open questions in fundamental science. The analysis is based on the full set of proton-proton collisions collected by the ATLAS experiment at the Large Hadron Collider at $\sqrt{s} = 8$ TeV. Special attention is given to the experimental challenges and analysis techniques, as well as the overall scientific context beyond particle physics. The results complement those of non-collider experiments and yield some of the strongest exclusion bounds on parameters of dark matter models by the end of the Large Hadron Collider run-1.

Details of the upgrade of the ATLAS Central Trigger for run-2 are also included.?

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