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Searches for dark matter and extra dimensions with the ATLAS detector

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Different approaches to finding evidence for dark matter at the LHC are presented. These include searches for events with large missing transverse momentum and a single jet, photon or W/Z boson. Searches for hidden sectors in events with long-lived particles resulting in displaced hadronic vertices or lepton-jet signatures are also reported. Finally, studies sensitive to the presence of extra spatial dimensions are described, as for example classical and quantum black holes and other non-resonant phenomena. Results from sqrt(s) = 8 TeV data taking are presented.

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