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Dark Matter searches with Mono-X signatures at the ATLAS experiment

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At the LHC dark matter particles can be produced in association with other particles which mainly come from initial state radiation. Searches for such processes are presented using events with jets, photons or massive gauge bosons recoiling against large missing transverse momentum in ATLAS at 13 TeV. These “mono-X” signatures provide powerful probes to dark matter production at the LHC, allowing to interpret results in terms of simplified models with pair production of WIMPs.

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