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Dark matter mediators in the dilepton final state at ATLAS

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The LHC offers the best prospects for direct production of WIMP Dark Matter (DM) and gauge bosons arising from a dark sector beyond the Standard Model (SM). In particular, a neutral $Z'\{DM\}$ boson mediating DM-SM interactions is a prime target for resonance searches, and its couplings can thereby be constrained within the broad context of mediator-based simplified DM models. In this poster I introduce the $Z'\{DM\}$ phenomenology in the dilepton final state and present the latest bounds on the relevant simplified models imposed by searches for high mass dilepton resonances with the ATLAS detector.

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