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Search for low-mass Dark Matter mediator decaying to jets with the ATLAS detector

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Summary

An important part of the ATLAS dark matter (DM) search programme is comprised of searches for new resonances decaying to either DM or hadronic final states. This talk will give an overview of this class of search, followed by a more in-depth look at one such analysis: the recently-published search for low-mass dark-matter mediators decaying to jets, with an associated high- p_T photon. This search triggers on an associated photon in order to significantly extend the sensitive region of ATLAS for dark matter mediators and generic resonances.

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