

Probing the Pseudoscalar portal to Dark Matter: From the LHC to the Galactic Centre Excess

Thursday 5 April 2018 17:15 (15 minutes)

I will propose a new search for dark matter at the LHC, characteristic of scenarios beyond the Standard Model with a pseudoscalar portal between the dark and visible sectors. This search explores large regions of parameter space that are not probed by missing energy signatures, searches for new scalars and flavour bounds. I will also show how this search could be used to test the dark matter origin of the gamma-ray Galactic Centre excess with LHC Run 2 data.

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