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Search for Dark Matter with 2HDM+pseudoscalar model with the ATLAS detector

Wednesday, 14 July 2021 17:15 (15 minutes)

Two-Higgs-Doublet model with an additional scalar (2HDM+a) belongs to a generic class of mediator-based dark matter models which have garnered considerable theoretical and experimental interest over the past few years.

This presentation talks about the the constraints on this model using 13 TeV collision data collected by the ATLAS detector at the LHC, with multiple analyses and combination discussed thanks to the rich phenomenology of collider signatures of this model.

Are you are a member of the APS Division of Particles and Fields?

Yes

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Presenter: WANG, Zirui (University of Michigan (US)) **Session Classification:** Beyond Standard Model

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