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The Higgs boson as a tool to search for Dark Matter in CMS

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The Dark Higgs model is an extension of the Standard Model that describes the phenomenology of dark matter while respecting the SM gauge symmetries. This new approach opens regions of parameter space that are less covered by searches optimized for simpler models of dark matter. In this talk, we present such searches from CMS, focusing on the recent results obtained using the full Run-II dataset collected at the LHC.

In-person participation

Yes

Primary author: KHURANA, Raman (National Taiwan University)**Presenter:** KHURANA, Raman (National Taiwan University)**Session Classification:** Dark Matter**Track Classification:** Dark Matter