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Mono-Higgs search at LHC with the CMS detector

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We discuss a search for a dark matter (DM) pair production in association with a 125-GeV Higgs boson using the data collected at 13 TeV at the LHC using the CMS detector. This signature, dubbed “mono-Higgs,” appears as a single Higgs boson plus missing energy from DM particles escaping the detector. The search exploits the large missing transverse energy and other kinematic variables to separate potential signal from the large SM background. The results are interpreted in the context of different simplified physics models.

Summary

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