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Mono-X Searches for Dark Matter with the CMS Detector

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Searches using large missing momentum are a powerful tool for probing dark matter hypotheses using the Compact Muon Solenoid at the LHC. Collectively, they are dubbed “mono-X” searches, where X refers to one of many Standard Model signatures. In this talk, I will give an overview of the broad range of CMS mono-X analyses, describe new techniques developed during Run 2, and showcase the latest constraints on DM models.

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