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Dark Matter searches in CMS

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Searches for dark matter at colliders are a powerful complementary probe to elucidate the nature of this hitherto unobserved form of matter. We present CMS searches for dark matter candidate particles and new mediators interacting with them. Various final states, topologies, and kinematic variables are explored utilizing the full Run-II data-set collected at the LHC. Furthermore, we interpret the results of the searches for direct dark matter production as well as visible decays of new mediators in the broader dark matter search landscape.

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Collaboration / Activity

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