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New Signatures of WIMPlless Dark Matter

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The recently proposed WIMPlless dark matter scenario provides a dark matter candidate which can have a wide range of possible masses, while still retaining the naturally correct thermal relic density of the WIMP scenario. This scenario leads to possible detection signals which are quite different from those usually expected of WIMPs. We review the WIMPlless scenario, and discuss examples which can potentially explain data from DAMA/LIBRa and CoGeNT. We also describe more general WIMPlless models, and possible signals at the Tevatron, LHC and IceCube/DeepCore.

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