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Nonstandard Dark Matter Signatures at the LHC

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Null results from dark matter direct detection experiments may indicate a nontrivial story in the dark matter sector. One example is the inelastic dark matter model with a mass splitting above 1 MeV, where the dark matter kinetic energy is not large enough to induce the inelastic scattering. Another example is the strongly interacting dark matter model with dark matter stopped inside the Earth before reaching detectors. Fortunately, the LHC can explore both scenarios and test them in spectacular signatures including mono-jet plus displaced pions and trackless jets.

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