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Missing Energy Signatures of Dark Matter at The LHC

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With the ever increasing amount of luminosity recorded, the LHC is capable of providing very strong constraints on dark matter properties, in a model independent fashion. Using the recent LHC mono-jet results, we set limits on the couplings of dark matter to quarks, and hence on the rate for direct detection of dark matter. We also discuss future bounds from mono-jet and mono-photon searches with higher luminosity, and bounds from the invisible higgs search when dark matter couples through a Higgs portal.

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