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Phenomenology of electroweak multiplets as dark matter candidates.

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Electroweak multiplets are arguably among the simplest and best motivated WIMP dark matter candidates. I will discuss their relevant phenomenology in the light of current and future experimental searches. Predictions for searches at the high-luminosity LHC, and at an 100 TeV pp collider will be presented. Then, I will analyze indirect detection probes. I will compare the predictions of the models, with a particular focus on Minimal Dark Matter, with the most recent bounds. I will discuss the impact of astrophysical uncertainties on current constraints and I will present predictions for future surveys.

Summary

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