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Overview on thermal DM models with emphasis on Electroweak charges

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Dark matter (DM) problem is now one of the most important problems in many fields of physics. DM mass is, however, currently predicted to be in a range between 10^{-55} g and 10^{40} g; uncertainty of a hundred orders of magnitude. A certain diversity of research is thus required to solve the DM problem and many DM candidates are now being proposed and discussed. Among various candidates, TeV-scale thermal DM candidates now attract attention as they are predicted by new physics models intensively discussed after the Higgs discovery at LHC and they also have a certain reason why current DM search experiments/observations do not detect their signals. I will summarize above interesting discussions of the TeV scale thermal DM candidates in this talk.

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