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## Overview on thermal DM models with emphasis on Electroweak charges

*Monday, 11 November 2019 12:45 (30 minutes)*

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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