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Dark matter in models with Higgs aligned gauge groups

Thursday, 27 July 2017 14:00 (15 minutes)

The Higgs can couple to SU(2)xU(1)xSU'(2)xU'(1) models in such a way that the diagonal vector-like SU(2)xU(1) corresponds to the electroweak gauge symmetry. This leads to a new class of Higgs portal dark matter models within reach of direct search experiments. I will introduce the corresponding dark matter models and their implications for direct search experiments. If time permits, I will also discuss renormalizable extensions of the dark sector in these models.

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