Contribution ID: **188** Type: **Poster Contributions**

Fermionic Minimal Dark Matter and Friends

Wednesday, 14 September 2016 15:05 (15 minutes)

We consider a natural extension of the Minimal Dark Matter scenario where Dirac and Majorana SU(2)_L multiplets couple together via the Higgs. We classify and study in a systematic way all the few possible models consistent with the absence of Landau poles up to very high scale, including the results for Direct Detection, and the Sommerfeld-enhanced annihilation. We demonstrate that, at freeze-out, a well educated estimation of the size of the Sommerfeld corrections can be done in the unbroken SU(2)_L limit. This is shown explicitly for the cases not present in
previous works on the subject.

Summary

Primary author: Mr ZALDIVAR, Bryan (LAPTh, Annecy)

Presenter: Mr ZALDIVAR, Bryan (LAPTh, Annecy)

Session Classification: Poster Session (coffee at 15:00) & CERN Visit

Track Classification: Dark matter (indirect detection)