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## Heavy scalar dark matter : constraints and observability

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We investigate the possibility of having a TeV scale scalar dark matter candidate for different representations of SU(2)L. Aside from gauge interactions, scalar couplings are shown to play a key role. Their contributions to annihilation and DM-nucleon cross-sections are derived, and discussed in light of current direct and indirect dark matter detection experiments.

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**Classification de Session:** Flavour Physics - Dark Matter