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Isospin breaking for dark matter

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In various theories of strongly-interacting dark matter non-degenerate flavors play an important role to satisfy constraints like relic abundance. To quantify the impact we investigate a candidate theory, $Sp(4)$ gauge theory with two fundamental flavors. At the relevant quark mass scales we find interesting patterns in the pseudoscalar and vector channel, which mix behavior from chiral and non-chiral origins. This paves the way for testing such a scenario quantitatively in a phenomenological setting.

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