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## [374] Sp(4) SIMP Dark Matter on the Lattice

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The Strongly Interacting Massive Particle (SIMP) paradigm provides dark matter (DM) candidates as pseudo-Goldstone bound states of dark fermions under a new gauge group. Freeze-out then occurs through  $3 \rightarrow 2$  dark matter self-annihilation and points to DM masses of O(100 MeV). We study the spectrum of the lightest mesons of Sp(4) gauge theory with 2 fundamental Dirac fermions using lattice gauge theory. There are 5 pseudo-Goldstone bosons which can self-annihilate. We investigate the explicit breaking of the flavour symmetry and report that one pseudo-Goldstone is lighter than the others which are still mass-degenerate.

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