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Type: **Parallel Talk**

## Scattering of pseudoscalar particles in a $Sp(4)$ -gauge theory.

*Thursday, 3 August 2023 16:00 (20 minutes)*

In this work we consider strongly interacting dark matter candidates which are composite states of  $N_f = 2$  fermions charged under a  $Sp(4)$  gauge group in the fundamental representation. We present first results from lattice calculations for the scattering properties of two pseudo-Goldstone bosons in the isospin  $I=2$  channel. We report results for searches for bound states and resonances and compare estimates of the interaction rates to astrophysical constraints.

### Topical area

Particle Physics Beyond the Standard Model

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