

## **Yannick Dengler:** Scattering of dark pions in $Sp(4)$ gauge theory

Analyses of astrophysical data provide first hints on the self-interactions of dark matter at low energies. Lattice calculations of dark matter theories can be used to investigate them, especially in the case of strongly-interacting dark matter. We consider  $Sp(4)$  gauge theory with two fundamental fermions as a candidate theory. In a first effort, the scattering phase shift in the most common channel was determined using the Lüscher formalism. As a next step we are extracting resonance parameters of the vector meson and investigate  $3 \rightarrow 2$  scattering using the three-particle quantization condition.