

# Pseudo-Goldstone Dark Matter in the $Z_3$ Scalar Singlet Model

*Tuesday 28 May 2019 14:25 (20 minutes)*

We consider pseudo-Goldstone dark matter in the  $Z_3$  scalar singlet model with the imaginary part of the singlet as the dark matter candidate. For a large part of the parameter space, the direct detection cross section is highly suppressed. There is a region, however, where the model can produce a stochastic gravitational wave background that could be seen in future space based detectors.

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