

Pseudo-Goldstone Dark Matter in the Z_3 Scalar Singlet Model

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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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