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Singlet-Doublet Dark Matter

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Abstract:

In light of recent data from direct detection experiments and the Large Hadron Collider, we explore models of fermionic dark matter in which an $SU(2)$ doublet is mixed with a Standard Model singlet. We impose a thermal history. This model is already constrained due to null results from XENON100. We comment on remaining regions of parameter space and assess prospects for future discovery. Much of the remaining parameter space will be probed by a combination of the next generation of direct and indirect detection experiments.

Author: KEARNEY, Jack (Harvard University (US))

Co-authors: PIERCE, Aaron (University of Michigan); TUCKER-SMITH, David (Williams College); COHEN, Timothy (S)

Presenter: KEARNEY, Jack (Harvard University (US))

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