## Abstract Submitted for the APR18 Meeting of The American Physical Society

A Comparison of Future Dark Matter Searches JEFFREY HUTCHINSON, Florida Gulf Coast University, KARA FARNSWORTH, Institute of Physics, Czech Academy of Science, ANTHONY GRIPPO, Florida Gulf Coast University — We analyze the projected limits from current and upcoming direct detection, indirect detection and collider searches in the context of minimal extensions to the standard model with thermal relic dark matter called Effective WIMPs. These models contain a singlet dark matter particle and a lepton "partners" with renormalizable cubic couplings between dark matter, the lepton partners, and leptons. Within this framework, we consider four models where the dark matter is a real scalar boson, complex scalar boson, Majorana fermion, or Dirac fermion.

Jeffrey Hutchinson Florida Gulf Coast University

Date submitted: 12 Jan 2018 Electronic form version 1.4