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A Comparison of Future Dark Matter Searches JEFFREY HUTCHINSON, Florida Gulf Coast University, KARA FARNSWORTH, University of California, Davis, JAMES DESENO, ANTHONY GRIPPO, SHANE MASSE, Florida Gulf Coast University — We analyze the projected limits from current and upcoming direct detection, indirect detection and future collider searches in the context of minimal extensions to the standard model with thermal relic dark matter. These models contain a singlet dark matter particle with cubic renormalizable couplings between quarks and "partner" particles with the same gauge quantum numbers as quarks. Within this framework, we consider six models where the dark matter is a scalar boson, fermion, or vector boson, and may or may not be its own antiparticle.

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