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Informing the next generation of dark matter and neutrino detectors with MiniCLEAN

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Single phase, zero field, liquid noble gas scintillator detectors are a simple, scalable and cost effective approach for dark matter and neutrino detection. The operation of MiniCLEAN, a dark matter detector currently commissioning with a liquid argon target at SNOLAB in Canada, will help inform the design of a future multi-ton experiment. The status and technical objectives of MiniCLEAN's role as a technology demonstrator will be discussed. New measurements of the triplet state lifetime in ultra-pure argon gas and its dependence on impurity level will be presented.

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