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R&D efforts for the next generation of very large scale Liquid Argon detectors for Neutrinos and Dark Matter.

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Liquid Argon (LAr) detectors are an excellent choice for neutrino detection and direct dark matter searches mainly due to their scalability. The next generation of experiments aims to construct very large scale detectors, however a lot of R&D is still required to demonstrate the technology. For example, both neutrino and dark matter experiments utilise the scintillation light produced in the argon, and so understanding the optical properties of LAr is crucial for larger scale detectors. I will review some of the R&D efforts dedicated to demonstrate the scalability of LAr detectors and to improve our understanding of the optical properties of LAr.

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