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Dark Matter Searches with Noble Liquids

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Dark matter experiments using liquid xenon and liquid argon targets have demonstrated exceptional sensitivities to medium- to high-mass dark matter candidates. Therefore, these two technologies are strong contenders for the G3 dark matter project and may explore WIMP parameter spaces down to the irreducible neutrino background. Meanwhile, new developments in noble liquid detector design and signal readout open the possibilities for such detectors to detect low-mass and ultra-low-mass dark matter particles. This talk will review the status of noble liquid experiments and discuss their future potentials.

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