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Dark Matter Search with DARWIN

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DARWIN (DARk matter WImp search with Noble liquids) is a future multi-ton scale detector for the direct detection of Weakly Interacting Massive Particles (WIMPs). The detector will be based on a xenon dual-phase time projection chamber (TPC) with simultaneous charge and light readout. The goal is to build the ultimate detector for WIMP masses above ~5GeV/c^2, whose sensitivity will only be limited by the irreducible neutrino background. This talk will focus on the physics reach and R&D activities related to DARWIN.

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