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Manfred Lindner(MPI for Nuclear Phys. Heidelberg): DARWIN - towards the ultimate dark matter detector

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The DARWIN project aims at a 50 ton ultimate liquid xenon dark matter detector and this talk will cover R&D efforts as well as the physics potential. DARWIN will search WIMPs in a wide mass-range until neutrino interactions become an irreducible background. It can search in addition for axions and for neutrinoless double-beta decay of 136-Xe. It can also measure the low-energy solar neutrino flux with high precision, observe coherent neutrino-nucleus interactions, and detect galactic supernovae.

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