

# Physics beyond neutrinoless double-beta decay with a tonne-scale germanium experiment

*Wednesday, 11 September 2013 19:30 (2h 30m)*

This talk will discuss the other physics opportunities that might be possible with a tonne-scale enriched germanium neutrinoless double-beta decay experiment. These include direct searches for light WIMP dark matter, solar axions, coherent neutrino-nuclear scattering, electron decay, Pauli-exclusion principle violation, fractionally charged particles in cosmic-rays, and other processes. We will discuss these in the context of the Majorana Demonstrator and GERDA experiments that are working toward the detection of the neutrinoless double-beta decay of the Ge76 isotope using enriched germanium detectors. The collaborations intend to join to pursue a tonne-scale germanium experiment, combining the best technologies from both experiments.

**Primary author:** HENNING, Reyco (U. of North Carolina at Chapel Hill)

**Presenter:** HENNING, Reyco (U. of North Carolina at Chapel Hill)

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