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Absolute mass and neutrinoless double beta decay

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The question of whether the neutrino is its own antiparticle, and the value of the absolute neutrino mass, are two of the most important unknowns in particle physics. A number of experiments are searching for neutrinoless double beta decay, in order to address these questions. The last year has marked the beginning of a new era for the field of neutrinoless double beta decay, with new results from EXO-200 and KamLAND-Zen, and a number of new experiments preparing to come on line. UK groups are involved in the SuperNEMO experiment, which is entering its construction phase, and SNO+, which is due to be taking data within the year. I will give an overview of the global status of neutrinoless double beta decay, and will then focus on the status of projects with UK involvement.

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