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Measurement of the two neutrino double beta decay half-life and a search for neutrinoless double beta decay of ^{82}Se with the NEMO-3 experiment

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The world's most precise measurement of the double beta decay half-life of ^{82}Se is presented. This measurement was made using a 932 g sample with the total exposure of the NEMO-3 data (5.25 yrs). In addition, a search for neutrinoless double beta decay in the same isotope has been conducted and no evidence for a signal has been observed. The resulting half-life limits for different decay modes, including neutrino mass mechanism, right-handed current and Majoron emission modes, are detailed.

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