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Double beta decay and neutrino mass

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Recent beautiful results on neutrino oscillations have shown that the difference between the square of the masses of neutrinos of two different flavours is finite. This strongly enhances the interest in neutrinoless double beta decay as a process capable to indicate a non-zero value for the absolute mass of a Majorana neutrino.

The present results of experiments on double beta decay will be briefly reviewed together with the applied techniques.

The future experiments aiming to reach a sensitivity in the determination of the neutrino mass as indicated by oscillation will be reported and discussed.

Montag, 18. Oktober 2004, 17:30 Uhr
(ab 17:00 Uhr Kaffee)

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