## Search for double beta decay and dark matter

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The recent experimental results on double beta decay will be reviewed and discussed with special reference to the neutrinoless channel. Main emphasis will be addressed to the possibility to detect with these searches a possible non-zero effective neutrino mass, in view of the recent results obtained on neutrino oscillations. The future second generation experiments on neutrinoless will be described with special emphasis to the techniques to be adopted, to the expected sensitivities and to their complementarity. The report on searches for another and parallel field of rare events, Dark Matter, will be devoted to the recent results on detection of Weakly Interacting Massive Particles. Even in this case the various experimental results obtained so far and their features will be discussed and compared. The techniques adopted will be described, together with planned experiments for the future.