

Physics opportunities with the SPIRAL upgrade



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Beta-delayed two-proton emission

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Beta-delayed 2p emission is an exotic decay mode close to the limits of stability. Like in other cases of 2p emission, the decay may go through intermediate levels, if energetically available, or be a direct 2p process by the simultaneous emission of two protons. In this last case, the two protons may reveal angular and energy correlations which could be compared to nuclear structure and dynamics models to study effects like pairing, barrier penetration etc.

Possible experiments with SPIRAL1 beams will be presented.

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