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Preliminary Results on ^{64}Se beta decay experiment at RIKEN Nishina Center

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Spin-isospin excitations can be studied by beta decay and charge exchange reactions in mirror nuclei, shedding light on mirror symmetry, hence we can compare our results on the beta decay of proton-rich nuclei with the results of charge exchange experiments when appropriate targets for the mirror nuclei are available [1]. Accordingly we have performed experiments at GSI and GANIL to study $T_z = -1$ [2] and $T_z = -2$ [3,4] nuclei respectively where it became clear that the study of heavier, more exotic systems, demands beam intensities available only at the RIKEN Nishina Center. In this work we present the first experimental observation of the beta-delayed protons in the decay of the $T_z = -2$ ^{64}Se .

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