

Beta decay of ^{82}Zn

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The Beta decay of ^{82}Zn has been studied at ISOLDE, CERN using a fast timing experimental setup, which included a thin NE111A plastic beta detector, two HPGe gamma detectors and two LaBr₃(Ce) detectors all positioned in a close geometry. A new value for the lifetime of the beta decaying g.s. of ^{82}Zn was obtained and the β^- branching ratio was measured for the first time. Tentative level schemes were constructed for ^{82}Ga and ^{81}Ga populated in the β^- and β^-n decay of ^{82}Zn , respectively, which include 13 gamma-rays in ^{82}Ga and 5 in ^{81}Ga .

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