ISOLDE Workshop and Users meeting 2012

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Beta decay of 82Zn

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The Beta decay of 82Zn 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 82Zn was obtained and the -n branching ratio was measured for the first time. Tentative level schemes were constructed for 82Ga and 81Ga populated in the Beta– and Beta–-n decay of 82Zn, respectively, which include 13 gamma-rays in 82Ga and 5 in 81Ga.

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