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Direct measurement of beta-delayed neutron emission at and beyond doubly-magic ^{78}Ni[1] RIN YOKOYAMA, Univ of Tennessee, Knoxville, BRIKEN COLLABORATION COLLABORATION — An experiment aiming to measure the beta-neutron-gamma decay properties of nuclei around ^{78}Ni produced by in-flight fission of a ^{238}U beam at 345 MeV/u and selected by means of BigRIPS was recently performed using the BRIKEN setup [1]. The BRIKEN detector is composed of the AIDA implantation-decay array [2] as well as 140 ^{3}He tubes and 2 HPGe clovers. The counting efficiency of a single beta-delayed neutron (β_{1n}) is above 60 [1] A. Tarifeno-Saldivia et al., IOP Jour. of Instr. 2016. [2] C. Griffin et al., in Proc. of NIC XIII Conf., 7-11 July 2014, Debrecen, Hungary. [3] K. Rykaczewski et al., experiment RIBF 127R, RIKEN RIBF, May/June 2017.

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