^{80}Y

The first observation of ^{80}Y was reported in "New Isotope ^{80}Y, and the Decays of ^{79}Sr, ^{81}Y, and ^{82}Y" by Lister et al. in 1981 (1981Li12). The Brookhaven Tandem Van de Graaff accelerator provided beams of 75-110 MeV ^{24}Mg which then bombarded enriched ^{58}Ni targets. ^{80}Y was produced in the fusion evaporation reaction ^{58}Ni(^{24}Mg,*pn*)^{80}Y. The recoil products were thermalized and deposited onto a Mylar Tape loop, where spectroscopic measurements were made. "The present work has resulted in the identification of a new neutron-deficient nuclide, ^{80}Y. Extensive decay scheme information has been obtained for ^{80}Y and the previously poorly characterized radioactivities of ^{79}Sr, ^{81}Y, and ^{82}Y."

Adapted from reference (2012Ny02)

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