^{84}Zr

"Investigation of Neutron Deficient Zr and Nb Nuclei with Heavy Ion Induced Compound Reactions," published in 1977 by Korschinek et al., described the first observation of ^{84}Zr (1977Ko05). ^{32}S and ^{12}C beams were used to bombard targets of ^{54}Fe, ^{58}Ni, and ^{74}Se at the Munich MP tandem accelerator. The γ-ray emissions of the reaction products were measured with a set of coaxial Ge(Li) detectors. "The statistics in the case of ^{84}Zr are poorer. A γ cascade with the transitions at 540, 722.8 and 874.4 keV could be identified." Previously half-life measurements of 16(4) min (1965Za02) and 5.0(5) min (1971Yu02) turned out to be incorrect.

Adapted from reference (2012Ny02)

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Please cite this abstract as: "FRIB Nuclear Data Group, *Discovery of Nuclides Project*, Isotope Database, doi:10.11578/frib/2279152"