

⁸²Zr

The 1982 paper “Selective On-Line Separation of New Ta, Zr and Sr Isotopes” by Liang et al. described the discovery ⁸²Zr (1982Li17). A 280 MeV ³He beam from the IPN-Orsay synchrocyclotron was used to bombard SrF₃ powder and rolled molybdenum foils. ⁸²Zr was identified with the ISOCELE-2 on-line mass separator. “The half-life of 32±5 s differs from the previous value 9.5 mn and a tentatively proposed value 2.5 mn.” The previous value of 9.5 min was listed in the 7th edition of the Table of Isotopes (1978LeZA) and the 2.5 min was mentioned in reference (1982De36), however, both were incorrect.

Adapted from reference (2012Ny02)

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