^{82}Y

In "Mass Excess Values of ^{79}Sr, ^{82}Y and ^{83}Y obtained from Q_β measurements," Deprun et al. described the observation of ^{82}Y in 1980 at the Institut de Physique in Orsay (1980De13). A ^{32}S beam with energies ranging from 100 to 160 MeV on ^{54}Fe and ^{58}Ni targets produced ^{82}Y in fusion-evaporation reactions. The reaction products were collected with a helium jet system and the masses were identified by time-of-flight. "By assuming that there are β^+ transitions from [the] ground state of ^{82}Y to the ground state of ^{82}Sr, the endpoint energy deduced from the β^+ spectra is 6.60±0.1 MeV and ΔM=7.62±0.1 MeV." Much longer half-lives of 70(10) min (1952Ca29), 9(3) min (1962Ma44), 12.3(2) min (1963Bu06), 7.4(1) min (1964Do02), and 7.5(1) min (1965Ni02) were incorrect.

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1952Ca29 A. A. Caretto Jr. and E. O. Wiig, J. Am. Chem. Soc. **74**, 5235 (1952).

1962Ma44 V. Maxia, W. H. Kelly, and D. J. Horen, J. Inorg. Nucl. Chem. **24**, 1175 (1962).

1963Bu06 F. D. S. Butement and G. B. Briscoe, J. Inorg. Nucl. Chem. **25**, 151 (1963).

1964Do02 I. Dostrovsky, S. Katcoff, and R. W. Stoenner, J. Inorg. Nucl. Chem. **26**, 209 (1964).

1965Ni02 W. J. Nieckarz Jr. and A. A. Caretto Jr., J. Inorg. Nucl. Chem. **27**, 919 (1965).

1980De13 C. Deprun, S. Della Negra, J. P. Husson, H. Gauvin, and Y. Le Beyec, Z. Phys. A **295**, 103 (1980).

2012Ny02 A. Nystrom and M. Thoennessen, At. Data Nucl. Data Tables **98**, 95 (2012).

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