

^{184}Bi

^{184}Bi was first observed in 2003 by Andreyev et al. in “ α -decay spectroscopy of light odd-odd Bi isotopes - II: ^{186}Bi and the new nuclide ^{184}Bi ” (2003An27). A ^{94}Mo beam was accelerated to 434–461 MeV by the GSI UNILAC heavy-ion accelerator and bombarded a ^{93}Nb target forming ^{184}Bi in the (3n) fusion-evaporation reaction. ^{184}Bi was separated with the velocity filter SHIP and implanted in a 16-strip position-sensitive silicon detector which also measured subsequent α decay. “Two α -decaying isomeric states in ^{184}Bi with half-life values of 12(2) ms and 6.6(15) ms were identified.”

Adapted from reference (2013Fr04)

2003An27 A. N. Andreyev, D. Ackermann, F. P. Hessberger, S. Hofmann *et al.*, Eur. Phys. J. A **18**, 55 (2003).

2013Fr04 C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 365 (2013).

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