^{208}Bi

In the 1953 article "Energy levels in lead and bismuth and nuclear shell structure" Harvey reported the observation of ^{208}Bi (1953Ha66). A 15.5 MeV deuteron beam from the MIT cyclotron bombarded a bismuth target and ^{208}Bi was populated in (d,t) reactions. Triton spectra were measured with a triple coincidence proportional counter. "The three levels observed in Bi^{208} arise from the $p_{1/2}$, $f_{5/2}$, and $p_{3/2}$ neutrons interacting with the odd $h_{9/2}$ proton." Earlier, Krishnan had assigned a 6.35(20) d half-life incorrectly to ^{208}Bi (1940Kr08).

Adapted from reference (2013Fr04)

1940Kr08 R. S. Krishnan and E. A. Nahum, Proc. Cambridge Phil. Soc. **36**, 490 (1940).

1953Ha66 J. A. Harvey, Can. J. Phys. **31**, 278 (1953).

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

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