^{203}Bi

In 1950, Neumann and Perlman described the first observation of ^{203}Bi, in "Isotopic assignments of bismuth isotopes produced with high energy particles" (1950Ne77). Lead targets were bombarded with 100 MeV protons and deuterons from the Berkeley 184-inch cyclotron. ^{203}Bi was identified by decay curve measurements and correlations with the thallium daughter decay following chemical separation. "12-hr. ^{203}Bi: No attempt was made to resolve this period directly out of the bismuth fraction nor to determine radiation characteristics, since it has the same half-life as Bi^{204} which was always present. However, the half-life was readily discerned by periodically removing the lead fraction; and upon resolution of 52-hr. Pb^{203}, it was found that its yield decreased with a half-life of 12$\pm$1 hr."

Adapted from reference (2013Fr04)

1950Ne77 H. M. Neumann and I. Perlman, Phys. Rev. **78**, 191 (1950).
2013Fr04 C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 365 (2013).

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