^{248}Bk

The first observation of ^{248}Bk was described in the 1956 article "New isotope of berkelium" by Hulet (1956Hu27). A curium target was bombarded with 25 MeV α particles from the Berkeley 60-in. cyclotron. ^{248}Bk was identified by periodically separating ^{248}Cf and measuring its α-decay. "A 23±5 hour half-life was calculated for Bk^{248} from the amount of Cf^{248} grown, the time intervals associated with the growths and decays, and estimated chemical yields." This half-life corresponds to an isomeric state and the observation of the ground state was reported nine years later by Milsted et al. (1965Mi08).

Adapted from reference (2013Fr02)

1956Hu27 E. K. Hulet, Phys. Rev. **102**, 182 (1956).

1965Mi08 J. Milsted, A. M. Friedman, and C. M. Stevens, Nucl. Phys. **71**, 299 (1965).

2013Fr02 C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 96 (2013).

Please cite this abstract as: "FRIB Nuclear Data Group, *Discovery of Nuclides Project*, Isotope Database, doi:10.11578/frib/2279152"