

⁶⁶Ni

The discovery of ⁶⁶Ni was reported by Goeckermann and Perlman in the 1948 publication “Characteristics of Bismuth Fission with High Energy Particles” (1948Go29). 200 MeV deuterons from the 184-in Berkeley cyclotron were used to produce fragments from the fission of bismuth. “The following is a list of bismuth fission products which were identified in the present studies (references are given for isotopes which only recently appeared in the literature or which have been hitherto unreported): Ca⁴⁵, Fe⁵⁹, Ni⁶⁶, Cu⁶⁷...” The half-life of ⁶⁶Ni was given in a footnote: “A 56-hr. β^- -emitter which proved to be the parent of 5-min Cu⁶⁶.”

Adapted from reference (2012Ga06)

- 1948Go29 R. H. Goeckermann and I. Perlman, Phys. Rev. **73**, 1127 (1948).
2012Ga06 K. Garofali, R. Robinson, and M. Thoennessen, At. Data Nucl. Data Tables **98**, 356 (2012).

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