

## <sup>67</sup>Cu

The discovery of <sup>67</sup>Cu 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: Ca<sup>45</sup>, Fe<sup>59</sup>, Ni<sup>66</sup>, Cu<sup>67</sup>...” The half-life of <sup>67</sup>Cu was given in a footnote: “A 56-hr.  $\beta^-$ -emitter tentatively assigned to Cu<sup>67</sup> on the basis of the mode of disintegration and half-life.” Less than a month later Hopkins et al. published the observation of <sup>67</sup>Cu independently (1948Ho04).

Adapted from reference (2012Ga06)

- 1948Go29 R. H. Goeckermann and I. Perlman, Phys. Rev. **73**, 1127 (1948).  
1948Ho04 H. H. Hopkins Jr. and B. B. Cunningham, Phys. Rev. **73**, 1406 (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”