

## <sup>206</sup>Bi

Howland et al. observed <sup>206</sup>Bi for the first time in 1947 in “Artificial radioactive isotopes of polonium, bismuth and lead” (1947Ho06). The Berkeley 60-inch cyclotron was used to bombard lead targets with a 40 MeV <sup>4</sup>He beam and thallium targets with 20 MeV deuterons. Electrons and  $\gamma$  rays were measured. “The 9-day Po<sup>206</sup> was found to decay into the 6.4-day bismuth activity assigned to Bi<sup>206</sup> or Bi<sup>207</sup> by Fajans and Voigt (1941Fa04, 1941Fa05). The assignment to Bi<sup>206</sup> is in agreement with the observation of Corson, MacKenzie, and Segre that this activity is not produced by the alpha-decay of <sup>85</sup>At<sup>211</sup> (1940Co02).” The measured half-life was 6.4 d. In addition to the different earlier assignment mentioned in the quote, Krishnan had assigned a 6.35(20) d half-life incorrectly to <sup>208</sup>Bi (1940Kr08).

Adapted from reference (2013Fr04)

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