

## <sup>225</sup>Th

Meinke et al. reported the observation of <sup>225</sup>Th in the 1949 paper “Three additional collateral alpha-decay chains” (1949Me54). Thorium was bombarded with 100–120 MeV <sup>4</sup>He beams from the Berkeley 184-inch cyclotron. Alpha-decay chains from <sup>228</sup>U and <sup>229</sup>U were measured following chemical separation. “The irradiation of thorium with 100-Mev helium ions resulted in the observation of the following collateral branch of the artificial 4n+1, neptunium, radioactive family shown with Po<sup>213</sup> and its decay products:  ${}_{92}\text{U}^{229} \xrightarrow{\alpha} {}_{90}\text{Th}^{225} \xrightarrow{\alpha} {}_{88}\text{Ra}^{221} \xrightarrow{\alpha} {}_{86}\text{Em}^{217} \dots$ ” The measured half-life was 7.8(3) min for <sup>225</sup>Th.

Adapted from reference (2013Fr03)

1949Me54 W. W. Meinke, A. Ghiorso, and G. T. Seaborg, Phys. Rev. **75**, 314 (1949).

2013Fr03 C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 345 (2013).

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