

²³⁸Bk

In the 1994 paper “Electron-capture delayed fission properties of the new isotope ²³⁸Bk” Kreek et al. reported the observation of ²³⁸Bk ([1994Kr03](#)). ²⁴¹Am targets were bombarded with 75 MeV α particles from the Berkeley 88-inch cyclotron. X-ray-fission coincidences were measured with six pairs of passivated ion-implanted silicon detectors. In addition, α -particle spectra were measured following chemical separation. “Electron-capture delayed fission ECDF was studied in the new isotope ²³⁸Bk produced via the ²⁴¹Am(75-MeV α , 7n)²³⁸Bk reaction. The half-life of the fission activity was measured to be 144 ± 5 seconds.”

Adapted from reference ([2013Fr02](#))

[1994Kr03](#) S. A. Kreek, H. L. Hall, K. E. Gregorich, R. A. Henderson *et al.*, Phys. Rev. C **49**, 1859 (1994).

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

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