

⁴⁶K

In the 1965 paper “New isotope K⁴⁶ produced with the Ca⁴⁸(d,α)K⁴⁶ reaction” Marinov and Erskine from Argonne National Laboratory reported the observation of ⁴⁶K ([1965Ma07](#)). Enriched ⁴⁸Ca targets were bombarded with 12 MeV deuterons from the Argonne Van de Graaff accelerator forming ⁴⁶K in the (d,α) reaction. The ejectiles were identified with a broad range magnetic spectrograph. “The ground-state Q value in the Ca⁴⁸(d,α)K⁴⁶ reaction was measured to be 1.915±0.015 MeV.”

Adapted from reference ([2012Th10](#))

[1965Ma07](#) A. Marinov and J. R. Erskine, Phys. Lett. **14**, 46 (1965).

[2012Th10](#) M. Thoennessen, At. Data Nucl. Data Tables **98**, 933 (2012).

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