

^{238}Np

Kennedy et al. published the observation ^{238}Np in the 1949 paper “Formation of the 50-year element 94 from deuteron bombardment of U^{238} ” (1949KeZZ). An enriched ^{238}U sample was bombarded with 14 MeV deuterons from the Berkeley 60-in. cyclotron. Following chemical separation, the growth of α -particles was followed and aluminum absorption curves were taken on a Lauritsen electroscope. “For these reasons, the most probable assignments of the 2.0-day element 93 and 50-year element 94 are 93^{238} and 94^{238} produced by the reactions $\text{U}^{238}(\text{d},2\text{n})93^{238}$, $93^{238} \xrightarrow{\beta^-}$ 2.0 day 94^{238} .” Earlier a 2 day activity was assigned to either ^{238}Np , ^{236}Np , or ^{235}Np (1946Se33).

Adapted from reference (2013Fr02)

- 1946Se33 G. T. Seaborg, E. M. Mcmillan, J. W. Kennedy, and A. C. Wahl, Phys. Rev. **69**, 366 (1946).
- 1949KeZZ J. W. Kennedy, M. L. Perlman, E. Segre, and A. C. Wahl, The Transuranium Elements: Research Papers, Book 1, Vol. 14B, paper 1. 9, G. T. Seaborg ed. , p. 79 (1949).
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