^{191}Re

In 1963, Crasemann et al. identified ^{191}Re in the paper "Properties of radioactive Re^{189}" (1963Cr06). During the study of ^{189}Re by (n,p) and (n,pn) reactions on metallic osmium irradiated with neutrons produced by bombarding beryllium with 20 MeV deuterons from the Brookhaven 60-in. cyclotron the previously observed 9.75 min half-life (1953At27) was assigned to ^{191}Re. "Aten and de Feyfer obtained a 9.75-min rhenium activity by bombardment of osmium with fast neutrons from 26-MeV deuterons on brass, and assigned this half-life to mass number 189, 190, or 192. It is now clear that they produced 10-min Re^{191} through the reaction Os^{192}(n,pn)."

Adapted from reference (2012Ro36)

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