# $^{190}$Re

Aten and de Feyfer reported the discovery of $^{190}$Re in the 1955 paper "Rhenium 190" (1955At21). Osmium targets were irradiated with 26 MeV deuterons and fast neutrons from the Philips' synchro-cyclotron at the Instituut voor Kernphysich Onderzoek in Amsterdam. Decay curves as well as absorption- and $\gamma$-ray spectra were measured following chemical separation. "The fact that the 2.8-minutes rhenium is formed both by neutron and by deuton irradiation, suggests that it may well be $^{190}$Re, which can be formed by the reactions $^{180}$Os(n,p) and $^{192}$Os(d,$\alpha$)."

Adapted from reference (2012Ro36)


1955At21 A. H. W. Aten Jr. and G. D. De Feyfer, Physica **21**, 543 (1955).

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