^{23}Ne

In 1936, Nahmias and Walen identified ^{23}Ne for the first time in "Sur quelques radioéléments artificiels" (1936Na01). Neutrons from a Rn-Be source irradiated a laminated sodium metal sample and activities of 8(1) s and 33(1) s were observed."Pour le Na la petite période serait due à la réaction ^{23}Na + ^{1}n $\rightarrow$^{20}F + ^{4}He et celle de 33 secondes à ^{23}Na + ^{1}n $\rightarrow$^{23}Ne + ^{1}H." [For the sodium, the short period would be due to the reaction ^{23}Na + ^{1}n $\rightarrow$^{20}F + ^{4}He and the one of 33 seconds due to ^{23}Na + ^{1}n $\rightarrow$^{23}Ne + ^{1}H.] Although a 40 s activity observed by Fermi et al. in 1934 in the bombardment of sodium with neutrons (1934Fe01) had been generally been accepted (1937Bj01) as being due to ^{23}Ne, Fermi et al. did not make that assignment.

Adapted from reference (2012Th01)

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Please cite this abstract as: "FRIB Nuclear Data Group, *Discovery of Nuclides Project*, Isotope Database, doi:10.11578/frib/2279152"