

²³F

Artukh et al. reported the first identification of ²³F in 1970 in “New isotopes ²³F, ²⁴F, ²⁵Ne and ²⁶Ne, produced in nuclear reactions with heavy ions” (1970Ar01). A metallic ²³²Th target was bombarded with a 174 MeV ²²Ne beam from the 300 cm heavy-ion cyclotron at Dubna, Russia. The reaction products were identified in a ΔE-E semiconductor telescope at the focal plane of a magnetic spectrometer. “The results quoted above show that apart from a number of known isotopes four new isotopes: ²³F (720 events), ²⁴F (25 events), ²⁵Ne (400 events) and ²⁶Ne (26 events) were obtained and identified unambiguously.”

Adapted from reference (2012Th01)

1970Ar01 A. G. Artukh, V. V. Avdeichikov, G. F. Gridnev, V. L. Mikheev *et al.*, Phys. Lett. B **31**, 129 (1970).

2012Th01 M. Thoennessen, At. Data Nucl. Data Tables **98**, 43 (2012).

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