

## **<sup>31</sup>F**

<sup>31</sup>F was discovered by Sakurai et al. in 1999 as reported in “Evidence for particle stability of <sup>31</sup>F and particle instability of <sup>25</sup>N and <sup>28</sup>O” (1999Sa06). A <sup>40</sup>Ar beam was accelerated at the AVF and RIKEN Ring Cyclotron to 94.1 MeV/nucleon and was fragmented on a tantalum target. The fragments were analyzed by the RIPS spectrometer and identified on the basis of energy loss, total kinetic energy, time-of-flight and magnetic rigidity. “The number of events obtained was 4387, 7072 and 905 for the isotopes <sup>19</sup>B, <sup>23</sup>N and <sup>22</sup>C, respectively. A new isotope <sup>31</sup>F (8 events) was observed for the first time.”

Adapted from reference (2012Th01)

1999Sa06 H. Sakurai, S. M. Lukyanov, M. Notani, N. Aoi *et al.*, Phys. Lett. B **448**, 180 (1999).

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

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