

## **<sup>168</sup>W**

The observation of <sup>168</sup>W was reported for the first time in 1971 by Stephens et al. as reported in “Some Limitations on the Production of very Neutron-Deficient Nuclei” (1971St16). <sup>168</sup>W was produced with a 155 MeV <sup>28</sup>Si beam from the Berkeley Hilac in the fusion-evaporation reaction <sup>144</sup>Sm(<sup>28</sup>Si,2p2n)<sup>168</sup>W. Yrast  $\gamma$  rays were measured up to 8<sup>+</sup> with Ge(Li) detectors; “... the rotational lines of <sup>168</sup>W are very analogous to those of <sup>124</sup>Ba, described above, and their ratio in- and out-of-beam is in excellent agreement with the calculation based on the above value for *k*.” This paper is referenced as the observation of <sup>168</sup>W only by Dracoulis in 1983 (1983Dr08).

Adapted from reference (2010Fr08)

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