

## $^{180}\text{W}$

Dempster reported the existence of the stable isotope  $^{180}\text{W}$  at the Ryerson Physical Laboratory of the University of Chicago in 1937 in “The Isotopic Constitution of Tungsten” ([1937De04](#)). Although there was prior evidence for its existence, impurities of the tungsten electrodes prevented a firm identification. “With pure tungsten electrodes, six photographs have been made showing the isotope at 180, and by varying the time of exposure, its intensity was estimated as approximately one one-hundredth of that of the isotope at 183. In the earlier photographs, the faint isotope was also found on two photographs of doubly charged ions, on two of triply charged ions, and on one of quadruply charged ions. Thus there can be no doubt that tungsten has a fifth faint stable isotope at mass 180.”

Adapted from reference ([2010Fr08](#))

[1937De04](#) A. J. Dempster, Phys. Rev. **52**, 1074 (1937).

[2010Fr08](#) A. Fritsch, J. Q. Ginepro, M. Heim, A. Schuh *et al.*, At. Data Nucl. Data Tables **96**, 315 (2010).

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