

^{54}Fe

In his 1924 paper “Recent Results obtained with the Mass-Spectrograph” Aston reported the observation of ^{54}Fe (1924As03). The mass spectra were measured at the Cavendish Laboratory in Cambridge, UK: “Anode rays of iron have been obtained strong enough to demonstrate beyond doubt the occurrence of its light isotope 54 previously suspected. The intensity of this line relative to the predominant 56 is estimated roughly as 1 to 20.” In 1922, Aston did not claim the discovery of ^{54}Fe . “A very faint line is, indeed, visible in all cases where the 56 line is really strong, but it is impossible to make certain that it is due to iron... The faint line at 54 may possibly be an isotope, but this is by no means certain.” (1922As04). This assignment was revised from the original publication of the discovery of iron isotopes (2010Sc18) which quoted a later publication by Aston (1923As04).

- 1922As04 F. W. Aston, *Nature* **110**, 312 (1922).
1923As04 F. W. Aston, *Phil. Mag.* **45**, 934 (1923).
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Please cite this abstract as: “FRIB Nuclear Data Group, *Discovery of Nuclides Project*, Isotope Database, doi:10.11578/frib/2279152”