

^{142}Ce

The stable isotope ^{142}Ce was discovered in 1924 by Aston: “The Mass Spectra of Zirconium and Some Other Elements” ([1924As04](#)). The isotopes were identified with the Cavendish mass spectrometer: “Successful mass spectra have been obtained with cerium (at. wt. 140.25), which indicate that it consists of a strong component 140 and a weak companion 142.”

The assignment was changed from the original compilation ([2009Gi07](#)) which credited a later paper by Aston ([1925As02](#)) with the discovery of ^{142}Ce .

- [1924As04](#) F. W. Aston, *Nature* **114**, 273 (1924).
[1925As02](#) F. W. Aston, *Phil. Mag.* **49**, 1191 (1925).
[2009Gi07](#) J. Q. Ginepro, J. Snyder, and M. Thoennessen, *At. Data Nucl. Data Tables* **95**, 805 (2009).

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