^{164}Er

Dempster reported the discovery of ^{164}Er in the 1938 paper "The isotopic constitution of gadolinium, dysprosium, erbium and ytterbium" (1938De01). An erbium oxide sample reduced with lanthanum was used for analysis in the Chicago mass spectrograph. "Two new isotopes were also observed in erbium reduced with lanthanum at masses 164 and 162, the first on eleven photographs with exposures of ten seconds to twenty minutes and the second on four photographs with seven to twenty minutes' exposure. An example of the mass spectrum is given in [the figure]. The abundances were estimated as approximately 2 percent for the mass at 164 and 0.25 percent for the mass at 162."

Adapted from reference (2013Fr10)

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