

## <sup>152</sup>Er

In the 1963 paper “Alpha-decay properties of some erbium isotopes near the 82-neutron closed shell” Macfarlane and Griffioen announced the discovery of <sup>152</sup>Er ([1963Ma18](#)). <sup>142</sup>Nd targets were bombarded with <sup>16</sup>O beams of 75–151 MeV from the Berkeley heavy-ion accelerator Hilac, and <sup>152</sup>Er was formed in (6n) fusion-evaporation reactions. Recoil products were collected on a charged plate which was placed in Frisch-grid ionization chamber to detect  $\alpha$ -particles. “Er<sup>152</sup>: ...A strong group was observed at 4.80-MeV alpha-particle energy which decays with a half-life of 10.7±0.5 sec”

Adapted from reference ([2013Fr10](#))

[1963Ma18](#) R. D. Macfarlane and R. D. Griffioen, Phys. Rev. **131**, 2176 (1963).  
[2013Fr10](#) C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 520 (2013).

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