

^{148}Er

“Very proton rich nuclei with $N \approx 82$ ” was published in 1982 by Nolte et al. documenting the observation of ^{148}Er (1982No08). ^{58}Ni beams of energies between 233 and 250 MeV from the Munich MP tandem and heavy-ion linear rf post accelerator were used to bombard ^{92}Mo targets forming ^{148}Er in the fusion-evaporation reaction $^{92}\text{Mo}(^{58}\text{Ni},2p)$. Gamma-ray singles and coincidences were measured with coaxial and planar Ge(Li) detectors. “With the help of cross bombardments and excitation functions, the two γ lines at 244.2 and 315.2 keV were tentatively assigned to the β decay of ^{148}Er to ^{148}Ho . The decay curve of the 244.2 keV line is also drawn in [the figure]. The corresponding half-life was found to be 4.5 ± 0.4 s.” In a separate paper submitted by the same authors on the same day, an isomeric state with a half-life of $13(3) \mu\text{s}$ was reported (1982No07).

Adapted from reference (2013Fr10)

- 1982No07 E. Nolte, G. Colombo, S. Z. Gui, G. Korschinek *et al.*, *Z. Phys. A* **306**, 211 (1982).
1982No08 E. Nolte, S. Z. Gui, G. Colombo, G. Korschinek, and K. Eskola, *Z. Phys. A* **306**, 223 (1982).
2013Fr10 C. Fry and M. Thoennessen, *At. Data Nucl. Data Tables* **99**, 520 (2013).

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