

## **<sup>114</sup>I**

The discovery of <sup>114</sup>I was reported by Kirchner et al. in the 1977 publication “New neutron-deficient tellurium, iodine, and xenon isotopes produced by reactions of 290 MeV <sup>58</sup>Ni ions on <sup>58</sup>Ni and <sup>63</sup>Cu targets” (1977Ki11). <sup>63</sup>Cu targets were bombarded with 290 MeV <sup>58</sup>Ni beams forming <sup>114</sup>I in (4p,3n) fusion-evaporation reactions. Beta-, gamma-, and X-rays, as well as protons and  $\alpha$  particles were measured following mass separation with the GSI on-line mass separator facility. “We wish to report in this letter the identification of the new neutron-deficient isotopes <sup>108–110</sup>Te, <sup>110–114</sup>I, and <sup>114</sup>Xe.” The reported half-life was 2.1(2) s.

Adapted from reference (2013Ka01)

- 1977Ki11 R. Kirchner, O. Klepper, G. Nyman, W. Reisdorf *et al.*, Phys. Lett. B **70**, 150 (1977).  
2013Ka01 J. Kathawa, C. Fry, and M. Thoennessen, At. Data Nucl. Data Tables **99**, 22 (2013).

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