

## <sup>195</sup>Rn

The discovery of <sup>195</sup>Rn by Kettunen et al. was reported in the 2001 paper “ $\alpha$  decay studies of the nuclides <sup>195</sup>Rn and <sup>196</sup>Rn” (2001Ke06). A <sup>142</sup>Nd target was bombarded with 239–267 MeV <sup>56</sup>Fe beams from the Jyväskylä K-130 cyclotron producing <sup>195</sup>Rn in the (3n) fusion-evaporation reaction. Recoil products were separated with the gas-filled recoil separator RITU and implanted into a position sensitive silicon detector which also measured subsequent  $\alpha$  decay. “Two  $\alpha$  decaying isomeric states, with  $E_\alpha=7536(11)$  keV [ $T_{1/2}=(6_{-2}^{+3})$  ms] for the ground state and  $E_\alpha=7555(11)$  keV [ $T_{1/2}=(5_{-2}^{+3})$  ms] for an isomeric state were identified in <sup>195</sup>Rn.”

Adapted from reference (2013Fr09)

2001Ke06 H. Kettunen, J. Uusitalo, M. Leino, P. Jones *et al.*, Phys. Rev. C **63**, 044315 (2001).

2013Fr09 C. Fry and M. Thoennessen, At. Data Nucl. Data Tables **99**, 497 (2013).

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