

## <sup>193</sup>Rn

Andreyev et al. reported the first observation of <sup>193</sup>Rn in the 2006 paper “ $\alpha$  decay of the new isotopes <sup>193,194</sup>Rn” (2006An36). A <sup>144</sup>Sm target was bombarded with 231–252 MeV <sup>52</sup>Cr beams from the GSI UNILAC forming <sup>193</sup>Rn in the (3n) fusion-evaporation reactions. Recoil products were separated with the velocity filter SHIP and implanted into a position-sensitive silicon detector which also recorded subsequent  $\alpha$  decay. “The half-life of  $T_{1/2}({}^{193}\text{Rn})=1.15(27)$  ms was deduced from 19 full-energy recoil- $\alpha_1$  (7670 keV-7890 keV) decays, which includes 16 events with the full-energy deposition in the PSSD and 3 events in which the energy was shared between the PSSD and BOX detectors.”

Adapted from reference (2013Fr09)

2006An36 A. N. Andreyev, S. Antalic, M. Huyse, P. Van Duppen *et al.*, Phys. Rev. C **74**, 064303 (2006).

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

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