

## **<sup>220</sup>Pa**

Liu et al. reported the observation of <sup>220</sup>Pa in the 2005 paper “Decay spectroscopy of suburanium isotopes following projectile fragmentation of <sup>238</sup>U at 1 GeV/u” (2005Li17). A beam of 1 GeV/u <sup>238</sup>U impinged on a beryllium target at GSI, Darmstadt. Reaction products were separated by the FRS fragment separator and implanted into a Si telescope for decay measurement. “The implantation decay correlations and yield measurements were performed starting with the FRS setting for <sup>224</sup>Pa near the stability line, and moving towards the proton drip-line. Particle identification for heavy suburanium isotopes was achieved unambiguously for FRS settings down to <sup>214</sup>Pa.” <sup>220</sup>Pa was included in a plot of the yields for fully stripped protactinium, thorium and actinium isotopes observed at the final focus. The discovery was probably not specifically mentioned because of earlier reports (1987FaZS,1987MiZO) which were, however, unpublished.

Adapted from reference (2013Fr03)

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