^{215}Ac

In 1968, Valli et al. reported the first observation of ^{215}Ac in the article "On-line alpha spectroscopy of neutron-deficient actinium isotopes" (1968Va04). The Berkeley heavy-ion linear accelerator was used to produce light actinium isotopes in the reactions ^{197}Au(^{20}Ne,xn), ^{203,205}Tl(^{16}O,xn), and ^{209}Bi(^{12}C,xn). Reaction products were deposited by helium flow onto a catcher foil which was then rotated in front of a Si(Au) surface barrier detector. "Actinium-215: ...The shape of the excitation function for the 7.602-MeV α activity in the ^{203}Tl+^{16}O case is particularly good evidence for the assignment to ^{215}Ac."

Adapted from reference (2013Fr03)

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