^{18}Ne

^{18}Ne was discovered by Gow and Alvarez in "Neon-18" in 1954 (1954Go17). Protons from the Berkeley linear accelerator bombarded teflon $(CF_2)_N$ and LiF crystal targets. ^{18}Ne was produced in the reaction ^{19}F(p,2n) and identified with a 180° magnetic spectrograph with two proportional counters in coincidence. "A decay curve taken at the magnet current that gave the best ratio of 1.6-sec activity to background is shown in [the figure]. From this we assign a value of the half-life of 1.6±0.2 sec."

Adapted from reference (2012Th01)

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