# $^{98}$Cd

The first observation of $^{98}$Cd was discussed in the 1978 publication of "Beta-Delayed Proton Emission from $^{97}$Cd and $^{99}$Cd" by Elmroth et al. (1978El09). A 115 g/cm$^2$ natural tin target was bombarded by 600 MeV protons from CERN's synchro-cyclotron forming $^{98}$Cd in spallation reactions. The isotopes were separated and identified with the ISOLDE electromagnetic isotope separator. "Two new beta-delayed proton precursors, $^{97}$Cd and $^{99}$Cd, have been identified at the ISOLDE on-line isotope separator... A search for $^{98}$Cd was also performed and it was found to be a pure $\beta$-emitter with a probable half-life of $\sim$ 8 sec."

Adapted from reference (2010Am04)


1978El09 T. Elmroth, E. Hagberg, P. G. Hansen, J. C. Hardy *et al.*, Nucl. Phys. A **304**, 493 (1978).

2010Am04 S. Amos and M. Thoennessen, At. Data Nucl. Data Tables **96**, 855 (2010).



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