

I should like to digress for a moment here to point out that our research program owes much to the efforts of Dr. J. G. Hamilton, T. M. Putnam, Jr., G. B. Rossi, and their collaborators who have operated the 60-inch cyclotron and made the bombardments which led to the discoveries of elements 96, and elements 97 and 98 to be mentioned later. In fact, I should like to pause further and recall at this time that five of the six presently known transuranium elements were first identified as a result of their initial production through the use of the Berkeley 60-inch cyclotron.

The identification (13, 14) of element 95 followed soon thereafter. This came in the very late fall of 1944 as a result of the bombardment of Pu²³⁹ with pile neutrons, the production reactions being as shown in the following slide (Figure 8).

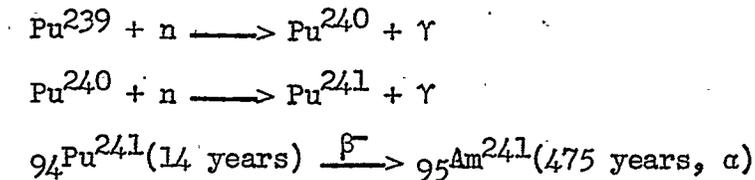


Figure 8

At the same time the isotope Cm²⁴² is formed as shown in the following slide (Figure 9), and this is presently the best method for its production.

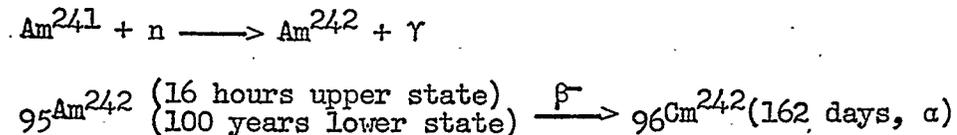


Figure 9