



FIG. 7

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Fig. 7. Alpha-pulse analysis of alpha-radioactivity remaining after complete decay of the 4.6-hour radioactivity. A new alpha-radioactivity of 5.84-Mev energy is observed which was proved by chemical separations to be a curium isotope of probable mass 243. The isotope Pu²³⁹ is present as low level contamination from other experimental work in the laboratory. The Cm²⁴² and its daughter Pu²³⁸ are present as traces not completely removed in the chemical separations.