

IDENTIFICATION OF ^{180}Tl α DECAY¹

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With the use of a fragment mass analyzer, the α decay of ^{180}Tl was identified in ^{92}Mo bombardments of ^{90}Zr . At least three α transitions were observed but on the basis of the data obtained it was not possible to conclude if they originate from one or more levels in ^{180}Tl . In the same irradiations a new α group was also identified in $^{179}\text{Tl}^m$ decay. Based on energy and half-life systematics, it appears that $^{179}\text{Tl}^m$, in contrast to the isomers in heavier odd-A Tl nuclei, is not the $h_{9/2}$ intruder level but rather the $h_{11/2}$ proton state.

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