

THE α -DECAY PROPERTIES OF ^{186}Bi ¹

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The α decay of ^{186}Bi was investigated via the $^{97}\text{Mo}(^{92}\text{Mo},p2n)$ reaction and the use of a fragment mass analyzer with a double-sided Si strip detector. In contrast to an earlier work wherein only one α transition was reported, we observed two transitions arising from two isomers in ^{186}Bi with energies and half-lives of: 7158(20)keV, $T_{1/2} = 15.0(17)$ ms; and 7261(20)keV, $T_{1/2} = 9.8(13)$ ms.

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