

$^{184}\text{Bi}$   $\alpha$  decay (13 ms) [2003An27](#)

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	E. A. Mccutchan	NDS 126, 151 (2015)	1-Feb-2015

Parent:  $^{184}\text{Bi}$ :  $E=0.0+x$ ;  $T_{1/2}=13$  ms 2;  $Q(\alpha)=8020$  50; % $\alpha$  decay $\approx$ 100.0

$^{184}\text{Bi}$  activity from  $^{93}\text{Nb}(^{94}\text{Mo},3n)$ ,  $E(^{94}\text{Mo})=380$  to  $480$  MeV. Channel selection with velocity filter SHIP. Measured  $E\alpha$ ,  $\alpha\gamma$ -coin,  $\alpha$ -decay branching ratio using position-sensitive Si detector and a coaxial HPGe detector.

 $\alpha$  radiations

<u><math>E\alpha</math></u>	<u>Comments</u>
$7.24 \times 10^3$ 12 7194 20	$E\alpha$ : $E(\alpha)=7120-7350$ , complex structure with contributions from many $\alpha$ -decays. $E\alpha$ : in coincidence with $E\gamma=124$ I.

 $\gamma(^{180}\text{Tl})$ 

$E\gamma$   
<sup>x</sup>124 I

<sup>x</sup>  $\gamma$  ray not placed in level scheme.