

**<sup>203</sup>At  $\alpha$  decay (7.4 min)    [1974Ho27](#),[1998Bo14](#),[1986Wo03](#)**

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 108, 79 (2007)	15-Oct-2006

Parent: <sup>203</sup>At: E=0; J <sup>$\pi$</sup> =9/2<sup>-</sup>; T<sub>1/2</sub>=7.4 min 2; Q( $\alpha$ )=6210.1 8; % $\alpha$  decay=27 4

<sup>203</sup>At-% $\alpha$  decay: average of % $\alpha$ =22 3 ([1998Bo14](#)) and % $\alpha$ =31 3 ([1974Ho27](#)). Other: % $\alpha$ =13.8 6 ([1961La02](#)), using I $\gamma$ (279 $\gamma$ )=83% in <sup>203</sup>Pb  $\epsilon$  decay (adopted I $\gamma$ (279)=80.9% 19).

Others: [1996Ta18](#), [1975BaYJ](#), [1968Go12](#), [1967Tr06](#), [1963Ho18](#), [1961La02](#).

Measured  $\alpha$  anisotropy: [1996Sc35](#), [1995Ro39](#) (review), [1988Wo11](#), [1987Wo04](#), [1986Wo03](#).

<sup>199</sup>Bi Levels

E(level)	J <sup><math>\pi</math></sup> †
0	9/2 <sup>-</sup>

† From 'Adopted Levels'.

$\alpha$  radiations

E $\alpha$	E(level)	I $\alpha$ ‡	HF†	Comments
6087 1	0	100	1.1 2	$\delta((L=2)/(L=0))=+0.005 3$ ( <a href="#">1988Wo11</a> ). E $\alpha$ : weighted average of 6088 2 ( <a href="#">1996Ta18</a> ), 6088 5 ( <a href="#">1986Wo03</a> ), 6089 3 ( <a href="#">1975BaYJ</a> ), 6085 5 ( <a href="#">1974Ho27</a> ), 6087 2 ( <a href="#">1968Go12</a> ), 6086 3 ( <a href="#">1967Tr06</a> ), 6085 1 ( <a href="#">1963Ho18</a> ). Uncertainty In <a href="#">1963Ho18</a> increased to 2 keV and 5 keV assigned In <a href="#">1986Wo03</a> . <a href="#">1991Ry01</a> evaluation gives 6087.4 8 using all values available up to 1986.

† r<sub>0</sub>(<sup>199</sup>Bi)=1.488 6.

‡ For absolute intensity per 100 decays, multiply by 0.27 4.