

$^{173}\text{Au}$   $\alpha$  decay (25 ms) [1999Po09,2004GoZZ](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 109, 2033 (2008)	15-Jun-2008

Parent:  $^{173}\text{Au}$ :  $E=0.0$ ;  $J^\pi=(1/2^+)$ ;  $T_{1/2}=25$  ms  $I$ ;  $Q(\alpha)=6836$  5;  $\% \alpha$  decay=94 19

$^{173}\text{Au}$ - $\% \alpha$  decay: From [1999Po09](#).

Other: [2001Ko44](#).

Parent  $T_{1/2}=25$  ms  $I$  from [2001Ko44](#) and [2004GoZZ](#) (other value: 20 ms +9-6 from [1999Po09](#)).

 $^{169}\text{Ir}$  Levels

E(level)	$J^\pi$ <sup>†</sup>	$T_{1/2}$ <sup>†</sup>
0.0	(1/2 <sup>+</sup> )	0.64 s +46-24

<sup>†</sup> From Adopted Levels.

 $\alpha$  radiations

$E_\alpha$	E(level)	$I_\alpha$ <sup>‡</sup>	HF <sup>†</sup>	Comments
6683 9	0.0	100	1.7 4	$E_\alpha$ : weighted average of 6672 6 ( <a href="#">1999Po09</a> ) and 6690 5 ( <a href="#">2004GoZZ</a> ); this $E_\alpha$ implies $Q(\alpha)=6841$ 9, compared with $Q(\alpha)=6836$ 5 from <a href="#">2003Au03</a> . other $E_\alpha$ : 6690 ( <a href="#">2001Ko44</a> ); probably superseded by <a href="#">2004GoZZ</a> . correlated with 6005 $\alpha$ from $^{169}\text{Ir}$ ( <a href="#">2004GoZZ</a> ).

<sup>†</sup> If  $r_0=1.55$   $I$  (based on  $r_0(^{168}\text{Os})=1.558$  8 in [1998Ak04](#), and  $r_0(^{170}\text{Pt})=1.548$  12 ([2002Ba93](#))), parent  $T_{1/2}=25$  ms  $I$  ([2001Ko44](#)),  $\% \alpha(^{173}\text{Au})=94$  19 ([1999Po09](#)) and  $Q(\alpha)=6836$  5 ([2003Au03](#)).

<sup>‡</sup> For absolute intensity per 100 decays, multiply by 0.94 19.