Adopted Levels

	Type	Author	History Citation	Literature Cutoff Date
	Full Evaluation	M. J. Martin	NDS 108,1583 (2007)	1-Jun-2007

$Q(\beta^-)=-5.91\times10^3$ *7*; $S(n)=8.46\times10^3$ *8*; $S(p)=7.\times10^1$ *8*; $Q(\alpha)=7.73\times10^3$ *5*   2012Wa38
Note: Current evaluation has used the following Q record -5700 ≈ 8440 80 *70*   80 *7730* 50   2003Au03.
$Q(\alpha)$: other: 7727 *15* (2002No01).
$Q(\beta^-)$: estimated by the evaluator from data in 2003Au03.
Assignment: $^{175}\text{Lu}(^{40}\text{Ar},7n)$, E=5.2-5.6 MeV/nucleon. P ^{204}Fr 7031α for 95-ms state, and p ^{204}Fr 7013α for the 25-ms state
   (1994Le05).

^{208}Ac Levels

Cross Reference (XREF) Flags

A ^{212}Pa α decay

E(level)	J^π	$T_{1/2}$	XREF	Comments
0	(3$^+$)	95 ms +*24*−*16*	A	$\%\alpha\approx99$; $\%\varepsilon\approx1$ $\%\varepsilon$:from gross β calculations of 1973Ta30. J^π: HF≈1.0 for branch to (3$^+$) in ^{204}Fr.
506 *26*	(10$^-$)	25 ms +*9*−*5*	A	$\%\alpha\approx90$; $\%\varepsilon\approx10$ $\%\varepsilon$, $\%\alpha$: gross β calculations of 1973Ta30 give $\%\varepsilon\approx1$. From an analogy to the E3 decay in ^{204}At, any isomeric decay to the expected 7$^+$ state (see 1994Sc24 and 1992Hu04)is expected to Be<10%. E(level): deduced from Eα for the 95-ms and 25-ms states. J^π: HF≈1.3 for branch to (10$^-$) level in ^{204}Fr.