

¹⁷³Yb(²⁴Mg,Fxn γ) 2000Fo13

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin		NDS 114, 1293 (2013)	1-Sep-2013

2000Fo13: ¹⁷³Yb(²⁴Mg,Ruxn γ), E(²⁴Mg)=134.5 MeV; GAMMASPHERE detector array; measured E γ , I γ , $\gamma\gamma$ coin, $\gamma(^{92}\text{Sr})$ - γ (Ru) coin following fission of the ¹⁹⁷Pb compound nucleus.

⁹¹Sr Levels

E(level) [†]	J $^\pi$ [‡]	Comments
0.0	5/2 ⁺	J $^\pi$: from Adopted Levels.
993.5	(9/2 ⁺)	J $^\pi$: excitation energy is consistent with shell-model predictions (1978Ba70).
2077.5	(13/2 ⁺)	J $^\pi$: not adopted; J $^\pi$ =(11/2 ⁻) In Adopted Levels.
3116.3	(15/2 ⁻)	
3304.4		
3576.0		
3946.3		
4278.1		
4625.8		
4830.6		E(level): erroneously given As 4871 In 2000Fo13 .
5003.3		

[†] From least-squares fit to E γ , allowing equal weight for all data.

[‡] Authors values, based on J $^\pi$ systematics.

 $\gamma(^{91}\text{Sr})$

E $_\gamma$ [†]	I $_\gamma$ [†]	E _i (level)	E _f	J $^\pi_f$	E $_\gamma$ [†]	I $_\gamma$ [†]	E _i (level)	J $^\pi_i$	E _f	J $^\pi_f$
172.9	<35	5003.3	4830.6		993.5	1000	993.5	(9/2 ⁺)	0.0	5/2 ⁺
271.6	53 10	3576.0	3304.4		1038.8	354 30	3116.3	(15/2 ⁻)	2077.5	(13/2 ⁺)
331.8	64 10	4278.1	3946.3		1084.0	431 35	2077.5	(13/2 ⁺)	993.5	(9/2 ⁺)
370.1	73 10	3946.3	3576.0		1226.8	30 5	3304.4		2077.5	(13/2 ⁺)
377.4	17 5	5003.3	4625.8		1509.4	17 5	4625.8		3116.3	(15/2 ⁻)
459.6	130 15	3576.0	3116.3	(15/2 ⁻)	1714.4	17 5	4830.6		3116.3	(15/2 ⁻)
830.2	55 10	3946.3	3116.3	(15/2 ⁻)						

[†] From [2000Fo13](#); authors do not state uncertainties.

