^{87}Sr(p,p′) 1978Ka37

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	T. D. Johnson and W. D. Kulp(a)	NDS 129, 1 (2015)	27-Jul-2015

Measurements done with E_p=20.5 MeV, Enge split-pole spectrograph with FWHM 9-14 keV, measured $\sigma(\theta)$, DWBA analysis.

^{87}Sr Levels

E(level)†	J^π	L‡	$\beta_L'^2\times10^3$‡	E(level)†	L‡	$\beta_L'^2\times10^3$‡	E(level)†	L‡	$\beta_L'^2\times10^3$‡
0	$9/2^+$			3159 *8*			4150 *8*	(5)	
389 *4*				3172 *8*			4169 *8*	(5)	
876 *4*				3247 *8*	(5)		4187 *8*	(2)	0.16
1229 *4*		2	1.63	3278 *8*	0		4218 *8*	4	0.95
1254 *4*				3300? *8*			4241 *8*	(2)	0.20
1740 *4*		2	2.96	3394 *8*	(5)		4259 *8*		
1772 *4*				3415 *8*	(5)		4288 *8*		
1921 *4*		2	1.45	3447 *8*	(5)		4323 *8*	(5)	
2112 *8*		3	1.47	3483 *8*			4340 *8*		
2156 *8*		2	3.36	3528 *8*			4354 *8*		
2238 *8*		2	1.59	3551 *8*	(5)		4371 *8*		
2262 *8*				3612 *8*			4408 *8*		
2422 *8*		3	1.43	3635 *8*	(5)		4435 *8*		
2488 *8*		3	0.30	3657 *8*			4470 *8*		
2539 *8*		3	4.2	3679 *8*			4501 *8*		
2555 *8*		3	5.0	3691 *8*			4546 *8*		
2597 *8*		3	4.8	3716 *8*			4559 *8*		
2634 *8*				3736 *8*			4584 *8*		
2681 *8*				3774 *8*			4612 *8*		
2705 *8*		(4)	1.35	3788 *8*			4635 *8*		
2806 *8*				3824 *8*			4659 *8*		
2832 *8*		3	7.9	3874 *8*	(5)		4675 *8*		
2893 *8*		(3)	0.53	3894 *8*			4684 *8*		
2922 *8*		3	1.5	3915 *8*			4716 *8*		
2943 *8*				3939 *8*			4751 *8*		
2980 *8*		3	0.73	3981 *8*	(4)	0.67	4785 *8*		
3005 *8*		3	1.23	4000? *8*			4878 *8*		
3036 *8*				4024 *8*			4918 *8*		
3103 *8*				4077 *8*			4951 *8*		
3121 *8*		(5)		4090 *8*			5120 *8*		
3133 *8*		3	1.23	4116 *8*	(4)		5169 *8*		

† 1978Ka37 give Δ(E)=4-8 keV depending on level energy. From comparison with Adopted Levels, evaluator assigns Δ(E) = 4 keV for levels below 2000 keV and Δ(E)=8 keV otherwise.

‡ From DWBA analysis of $\sigma(\theta)$.