

$^{84}\text{Kr}(\text{t,p})$ 1976F102

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Alexandru Negret, Balraj Singh		NDS 124, 1 (2015)	30-Nov-2014

1976F102: E=17 MeV, FWHM 45 keV to 50 keV. Measured $\sigma(\theta)$ for $\theta=12^\circ-55^\circ$. DWBA analysis.

Cross section data			
Level	$d\sigma/d\Omega$ at 18° (mb/sr)	Level	$d\sigma/d\Omega$ at 18° (mb/sr)
0	0.034	4708	0.043
1563	0.008	4826	0.093
2248	0.002	4948	0.105
2355	0.015	4991	0.019
2733	0.006	5438	0.034
3109	0.018	5496	0.110
3542	0.045	5707	0.091
3832	0.006	5801	0.074
3959	0.046	5865	0.156
4072	0.019(36°)	5981	0.212
4111	0.293	6118	0.069
4194	0.130	6222	0.118
4298	0.020	6318	0.045
4668	0.043	6397	0.075

 ^{86}Kr Levels

E(level)	L [†]	Enhancement factors [‡]	Comments
0	0	0.38	
1563 10	2	0.018	
2248 10	3,4	0.015	
2355 10	2	0.028	
2733 10	0	0.092	
3109 10	3,4	0.046	
3542 10	0	0.48	
3832 10	0	0.087	
3959 10	3,4	0.12,0.11	
4072 10			L: $\sigma(\theta)$ consistent with L=5, but 1976F102 point out that $\sigma(\theta)$ distribution is incomplete.
4111 10	2	0.47	
4194 10	2	0.21	
4298 10	3,4	0.041,0.038	
4668 10	3,4	0.10,0.087	
4708 10			J ^π : this level may have high spin since $\sigma(\theta)$ pattern is not characteristic of any other observed L-transfer.
4826 10	(2)	0.14	
4948 10	(2)	0.20	
4991 10			
5438 10			
5496 10			
5637? 10			
5707 10			
5801 10			
5865 10			
5981 10			
6118 10			
6222 10			

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 $^{84}\text{Kr}(\text{t,p})$ **1976F102 (continued)**

 ^{86}Kr Levels (continued)E(level)6318 *10*6397 *10*[†] Deduced from DWBA analysis of angular distributions.[‡] Enhancement factor= $[(d\sigma/d\Omega)_{\text{exp}}]/N[(d\sigma/d\Omega)_{\text{DWBA}}]$, where $N=218$.