

$^{144}\text{Sm}(t,p)$  1966Bj01

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Yu. Khazov, A. Rodionov and G. Shulyak		NDS 136, 163 (2016)	14-Jul-2016

$J^\pi(^{144}\text{Sm})=0^+$ .

1966Bj01:  $^{144}\text{Sm}(t,p)$ ,  $E \approx 12$  MeV; measured  $\sigma(E, \theta)$ ,  $\text{FWHM} \approx 20$  keV.  $^{146}\text{Sm}$ ; deduced levels. Discussed  $J^\pi$ . Tandem, spectrograph, enriched target.

 $^{146}\text{Sm}$  Levels

E(level)	$J^\pi$	$(d\sigma/d\Omega)_{\text{cm}}$ mb/sr	L	E(level)	$(d\sigma/d\Omega)_{\text{cm}}$ mb/sr
0.0	$0^+$	0.29	0	2738 10	0.01
749 10	$2^+$	0.28	2	2786 15	
1387 10		0.14		2808 15	
1656 10		0.04		2851 10	0.03
1817 10		0.04		2933 15	
2090 10		0.04		2979 15	
2163 10	$2^+$	0.29	2	2998 15	
2231 10		0.05		3021 15	
2288 10		0.04		3056 15	
2442 10		0.06		3071 15	
2546 10	$(2^+)$	0.04		3140 15	
2611 10	$0^+$	0.09	0	3187 15	
2653 10		0.02		3240 15	
2681 15				3264 15	