

$^{238}\text{U}(\text{d,p})$  1978Er03

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli		NDS 122, 293 (2014)	30-Jun-2013

E(d)= 12 MeV, magnetic spectrometer, angular distribution. Other measurements: [1964Ma24](#), [1966Sh16](#), [1972Er03](#). Levels reported by [1966Sh16](#) and not observed by [1978Er03](#) are probably from impurities.

 $^{239}\text{U}$  Levels

E(level)	$J^{\pi\dagger}$	$T_{1/2}^{\#}$	L	$S^{\ddagger}$	Comments
0	5/2 <sup>+</sup>			0.0067 12	
43.2	7/2 <sup>+</sup>				
98.1 15	9/2 <sup>+</sup>		4	0.075 6	
133.5 15	1/2 <sup>+</sup>	0.78 $\mu\text{s}$ 4	(0)	0.017 3	
146.1 15	3/2 <sup>+</sup>		(2)	0.050 9	
165? 5	(7/2 <sup>+</sup> )				E(level): from <a href="#">1966Sh16</a> .
226.3 15	9/2 <sup>+</sup>				
301.8 20	11/2 <sup>+</sup>				
307.8 15	9/2 <sup>+</sup>			0.020 4	
372.7 20	11/2 <sup>-</sup>				
498.6 15	15/2 <sup>-</sup>				
689.0 15	1/2 <sup>+</sup>				
702.5 15	9/2 <sup>+</sup>				
717.3 15	3/2 <sup>+</sup>				
$\approx$ 738	5/2 <sup>+</sup>				
738.3 15	1/2 <sup>-</sup>				
748.0 20	3/2 <sup>-</sup>				
759.0 20	5/2 <sup>+</sup>				
781.4 20	5/2 <sup>-</sup>				
795.9 15	7/2 <sup>-</sup>				
814.5 15	1/2 <sup>-</sup>				
823.9 15	3/2 <sup>-</sup>				
838.3 15	11/2 <sup>-</sup>				
854.1 15	3/2 <sup>+</sup>				
874.0 15	9/2 <sup>+</sup>				
887.6 15	5/2 <sup>+</sup>				
897.9 15					
919.3? 20					
936.9 20	1/2 <sup>-</sup>				
944.8 20	7/2 <sup>+</sup>				
963.6 15	3/2 <sup>-</sup>				
978.4 15					
996.1 15	9/2 <sup>+</sup>				
1066.5 15					
1115.0 15					
1151.1 20					
1197.3 15					
1232.6 15					
1240 3					
1260.1 15					
1273 3					
1337.7 20					
1364.7 20					
1430 3					
1473 3					
1515 2					
1524 3					

Continued on next page (footnotes at end of table)

$^{238}\text{U}(\text{d},\text{p})$  **1978Er03** (continued) $^{239}\text{U}$  Levels (continued)

† From **1978Er03** based on signature pattern of cross sections.

‡ From **1972Er03**.

# E(d)= 12 MeV, pulsed beam (**1975Ya03**).