^{235}U(d,d′) 1976Th01,1978St11

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 122, 205 (2014)	1-Feb-2014

E(d)= 16 MeV (1976Th01), E(d)= 13.1 MeV (1978St11). FWHM 10− 14 keV, Measured σ at 90° and 125°; some transferred L-values were estimated (1976Th01). Deduced BEL (1978St11). Others: 1968St22, 1968St24, 1972Ri08, 1977St31, 1978St11. Level at 257 keV *4*, reported in 1972Ri08, has not been observed in recent work.

^{235}U Levels

E(level)	J^{π}[†]	Comments
0	$7/2^-$	
45 *1*	$9/2^-$	B(E2)= 8.0 *12*.
103 *2*	$11/2^-$	B(E2)= 2.2 *3*.
170 *1*	$13/2^-$	
225 *2*	$9/2^+$	
247 *1*	$15/2^-$	
288 *2*	$11/2^+$	
338 *1*	$17/2^-$	
366 *2*	$7/2^+$	
392 *3*	$3/2^+$	
414 *3*	$9/2^+$	B(E3)= 0.027 *10*.
430 *4*	$5/2^+$	
444 *2*	$7/2^+$	B(E3)= 0.078 *20*. J^{π}: $J^{\pi}=9/2^+$, assigned in 1978St11, disagrees with $J^{\pi}=7/2^+$, assigned in (n,γ) (1979Al03).
474 *2*		
510 *3*	$(9/2^+)$	B(E3)= 0.060 *15*.
537 *5*		
554 *5*		
585 *1*	$(11/2^+)$	B(E3)= 0.066 *20*.
610 *2*		
636 *3*	$3/2^-$	B(E2)≤0.036.
663 *4*	$5/2^-$	
670 *2*	$7/2^-$,$13/2^+$	B(E2)= 0.04 *2*.
701 *3*	$7/2^-$	
720 *2*	$9/2^-$	B(E2)≤0.026.
751 *3*	$9/2^-$	B(E2)= 0.010 *5*.
774 *4*	$11/2^-$	
820 *2*	$9/2^-$	B(E2)= 0.028 *10*.
829 *3*		
886 *2*	$11/2^-$	B(E2)= 0.017 *5*.
920 *2*	$11/2^-$	B(E2)= 0.041 *10*.
948 *3*	$(13/2^-)$	
960 *4*	$13/2^-$	
986 *3*	$(9/2^+)$	B(E3)= 0.034 *15*.
986+x *3*	$(13/2^-)$	
1001 *3*		
1040 *2*	$11/2^+$	B(E3)= 0.063 *15*.
1063 *2*	$7/2^-$	B(E2)= 0.032 *10*.
1094 *4*	$13/2^+$	B(E3)= 0.021 *10*.
1108 *4*	$9/2^-$	B(E2)= 0.017 *5*.
1152 *6*	$(11/2^-)$	
1253 *5*		
1275 *5*		
1303 *5*		B(E3)= 0.029 *10*.
1326 *5*	$(3/2^+)$	B(E3)= 0.032 *10*.
1361 *4*	$(5/2^+)$	B(E3)= 0.067 *15*.

Continued on next page (footnotes at end of table)

^{235}U(d,d′) 1976Th01,1978St11 (continued)

^{235}U Levels (continued)

E(level)	J^{π}[†]	Comments
1411 *5*	$(7/2^+)$	B(E3)= 0.040 *10*.
1455 *6*	$(9/2^+)$	B(E3)= 0.021 *10*.

[†] From 1976Th01. See Adopted Levels for recommended J^{π}.