

$^{236}\text{U}(t,\alpha)$ 1977Th04

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

Additional information 1.

E(t)=15 MeV, magnetic spectrograph, $\sigma(60^\circ)$, FWHM=19 keV, DWBA analysis (1977Th04).

 ^{235}Pa Levels

E(level)	J^π †	Comments
0.0‡	3/2	
19# 3	1/2	
55‡ 4	7/2	
65@ 6	(9/2 ⁺)	
100 4		
132@ 4	13/2 ⁺	
162 6		
192 8		
252 8		
345& 6	3/2 ⁺	
378& 10	5/2 ⁺	
484 12		
525 12		
570 12		Probable doublet.
630 12		
649 12		
682 12		
751 ^a 8	(11/2 ⁻)	
965 ^b 8	(5/2 ⁻)	

† Based on a comparison of cross sections with theory, and on the analogy with ^{233}Pa level structure.

‡ Band(A): 1/2[530].

Band(B): 1/2[400].

@ Band(C): 3/2[651].

& Band(D): 3/2[402].

^a Band(E): 9/2[514].

^b Band(F): 1/2[541].

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			Band(F): 1/2[541]
			<u>(5/2⁻)</u> <u>965</u>
			Band(E): 9/2[514]
			<u>(11/2⁻)</u> <u>751</u>
			Band(D): 3/2[402]
			<u>5/2⁺</u> <u>378</u>
			Band(C): 3/2[651]
			<u>13/2⁺</u> <u>132</u>
			Band(B): 1/2[400]
			<u>1/2</u> <u>19</u>
			Band(A): 1/2[530]
			<u>7/2</u> <u>55</u>
			Band(A): 1/2[530]
			<u>(9/2⁺)</u> <u>65</u>
			Band(A): 1/2[530]
			<u>3/2</u> <u>0.0</u>