^{226}Ra(d,t), (pol d,t) 1983Ny01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	A. K. Jain (a), R. Raut (b), J. K. Tuli	NDS 110, 1409 (2009)	1-Dec-2008

(d,t): E=12 MeV; data were taken at θ=90° and 125° (1983Ny01).
(pol d,t): E=17 MeV; data were taken at twelve angles, 11.5° to 73.5°. Each measurement consisted of one run with beam spin "UP" and another with spin "DOWN" (1983Ny01).
Q(d,t)=−146 *10* (1983Ny01).

^{225}Ra Levels

E(level)†	Jπ#	L‡	Comments
0	(1/2+)@	0,2	
25	5/2+@	2	
43	3/2+@	2	
101	(3/2+)		
115	(7/2+)@	≤4	Level possibly doublet (1983Ny01).
150	(3/2+)	1,2	
220			
236	5/2+&		
244	(7/2+)		
270	7/2+&	4	
293			
321	9/2+&	4	
390			
400			
484	(5/2+)		Level is possibly doublet (1983Ny01).
535	(9/2+,7/2+)	(1,3)	
546			
606		1,2,3	
615			
630	(1/2+,5/2+)	0,2	
675	(3/2+)		
815	5/2−,(3/2+)	3,(2)	
851			
898	1/2−a	1	
956	5/2−a	2	
967	3/2−,(1/2+)a	(0,1)	
1009			
1025		(2,1)	
1056	(1/2+,5/2+,3/2−)		
1070		(0,1,2)	
1091			Level is possibly doublet (1983Ny01).
1156			
1225	5/2−b	(3)	
1258	(3/2−)c	(1)	
1334		(0)	
1408	(3/2−)c	(1)	
1441	(3/2−)c	(1)	
1479			
1553			
1766		(0,1)	
1792		(0,1)	

Continued on next page (footnotes at end of table)

^{226}Ra(d,t), (pol d,t) 1983Ny01 (continued)

^{225}Ra Levels (continued)

† FWHM≈12 MeV.
‡ Determined by 1983Ny01 from angular distributions.
# Assignments made by 1983Ny01 from analyzing powers, L-transfer values, and comparison of observed cross sections with calculations.
@ 1/2[631] band member.
& 5/2[633] band member.
a 1/2[501] band member.
b 5/2[503] state.
c Possibly the 3/2[501] state is the major component.