^{29}Si(p,d),^{30}Si(p,t) 1969HaZD,1971Wa25

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia	NDS 114, 1189 (2013)	1-Apr-2013

$J^\pi(^{29}Si)=1/2^+$.

1969HaZD: ^{29}Si(p,d) E=17.5 MeV; measured $\sigma(\theta)$.

1971Wa25: ^{29}Si(p,d), 96% enriched target, E=35 MeV; measured $\sigma(\theta)$, deduced excited L, J^π, and spectroscopic factor. Also studied ^{30}Si(p,t).

Other reactions:
^{29}Si(p,d): 1970Pe17, 1980Ho18.
^{30}Si(p,t): 1969Ha19, 1974Wi04, 1975Ha13, 1975Se17.

^{28}Si Levels

E(level)†	J^π†	L‡	S‡	Comments
0.0	0^+	0	0.37@	
1779.030 *11*	2^+	2	0.44	
4617.86 *4*	4^+	4		
4979.92 *8*	0^+	0	0.11	
6276.20 *7*	3^+	2	0.37	
6690.74 *15*	0^+	0		
6878.79 *8*	3^-	3+4#	(0.01)#	
6887.65 *10*	4^+	3+4#	(0.01)#	
7380.59 *9*	2^+	2#	(0.13)#	
7416.26 *9*	2^+	2#	(0.13)#	
7799.01 *9*	3^+	2	0.04	
7933.45 *10*	2^+	2	0.13	
8258.74 *10*	$2^{(+)}$	1	(0.05)	L: Inconsistent with parity in Adopted Levels.
8328.38 *12*	1^+	0	0.03	
8588.71 *10*	3^+	2	0.01	
8904.8 *4*	1^-	1	0.13	
9315.92 *10*	3^+	2	2.1	
9381.55 *12*	2^+	2	1.0	
9764.52 *11*	(3^-)	1	0.07	
9929.2 *17*	1^-	1	0.08	
10181.60 *12*	(3^-)	3	(0.01)	

† From Adopted Levels.
‡ From 1971Wa25, except otherwise noted.
# For doublet.
@ From 1969HaZD.