

^{27}Si $Z = 14$ $N = 13$ adopted link ENSDF link

Based on ensdf_240402 (Apr 2024), and mass evaluation from 2020

BE = 219.357 (0.000) MeV

Qbeta+ = 4.812 (0.000) MeV

	Energy T	J+	J-	J-other	T1/2

27SI 1	0.000	5/2+			1 4.15 S 4
27SI 2	0.781	1/2+			2 35 PS 4
27SI 3	0.957	3/2+			3 1.20 PS 8
27SI 4	2.164	7/2+			4 44 FS 5
27SI 5	2.648	5/2+			5 17 FS 2
27SI 6				2.866 (3/2,5/2)	6 3 FS LT
27SI 7	2.910	9/2+			7 52 FS 6
27SI 8	3.540	1/2+			8 5 FS LT
27SI 9	3.804	3/2+			9 7 FS LT
27SI 10				4.138 1/2-, (3/2)	10 6 FS 3

27SI 11	4.289	5/2+			11 3.5 FS 14
27SI 12	4.447	(11/2+)			12 390 FS 40
27SI 13				4.475 7/2+, (9/2)	13 7 FS LT
27SI 14	4.704	5/2+			14 5 FS LT
27SI 15	5.062	5/2+			15 21 FS 6
27SI 16				5.208	16 35 FS LT
27SI 17				5.227 1/2-, 3/2-	17
27SI 18	5.262	(3/2+ T 9/2+)			18
27SI 19				5.283 (7/2, 11/2)	19 17 FS 4
27SI 20				5.317	20 31 FS LT

27SI 21				5.392 (3/2, 5/2)	21 31 FS LT
27SI 22				5.497	22 10 FS LT
27SI 23				5.547	23
27SI 24				5.580	24
27SI 25				5.613	25
27SI 26				5.783	26
27SI 27				5.897	27
27SI 28				6.028	28
27SI 29				6.059	29
27SI 30				6.323	30

27SI 31				6.346	31
27SI 32				6.457	32
27SI 33				6.513	33
27SI 34				6.572	34
27SI 35				6.587	35
27SI 36	6.626	3/2 1/2+			36

27SI 37						6.715		37	
27SI 38						6.743		38	
27SI 39						6.780		39	
27SI 40						7.005		40	

27SI 41						7.059		41	
27SI 42						7.080		42	
27SI 43						7.134		43	
27SI 44						7.223		44	
27SI 45						7.239		45	
27SI 46						7.260		46	
27SI 47						7.276		47	
27SI 48						7.324		48	
27SI 49						7.341		49	
27SI 50						7.383		50	

27SI 51						7.428		51	
27SI 52						7.436		52	

S-p	=	7.463	(0.000)	-----					
27SI 53		7.469	(5/2+)					53	
27SI 54		7.532	5/2+					54 4.2 FS LT	
27SI 55		7.590	9/2+					55 13.9 FS 21	
27SI 56		7.652	(11/2+)					56 8.3 FS 21	
27SI 57		7.694	(5/2+)					57 3.5 FS LT	
27SI 58				7.705	(7/2-)			58 0.7 FS LT	
27SI 59		7.739	(9/2+)					59 15 FS 3	
27SI 60		7.795	(7/2+)					60	

27SI 61				7.832	(9/2-)			61 6 FS 4	
27SI 62		7.838	(1/2+)					62 0.7 FS LT	
27SI 63		7.900	(5/2+)					63 10 FS 7	
27SI 64		7.909	(3/2+)					64	
27SI 65		7.967	(5/2+)					65 8 FS 6	
27SI 66		8.032	(5/2+)					66	
27SI 67				8.070	(3/2-)			67	
27SI 68						8.139 (1/2)		68 0.7 FS LT	
27SI 69						8.156		69 0.5 KEV LT	
27SI 70		8.167	(11/2+)					70 0.5 KEV LT	

27SI 71						8.175 (1/2,3/2)		71	
27SI 72				8.184	(3/2-)			72 2.8 FS 21	
27SI 73						8.200 (1/2,5/2)		73 9 FS 5	
27SI 74				8.208	(7/2-)			74	
27SI 75		8.224	(7/2+)					75 0.5 KEV LT	
27SI 76		8.287	(7/2+ T 13/2+)					76 1.0 KEV LT	
27SI 77						8.299		77	
27SI 78						8.327 (1/2,3/2)		78	
27SI 79						8.345 (7/2)		79	
27SI 80		8.356	(3/2+ T 9/2+)					80 0.5 KEV LT	

27SI 81		8.376	(5/2+)			81	2.1 FS	14	
27SI 82					8.450 (1/2,3/2)	82			
27SI 83					8.486	83			
27SI 84					8.523	84			
27SI 85					8.544	85	4.8 KEV	7	
27SI 86					8.557	86			
27SI 87					8.586	87			
27SI 88					8.669	88	5.4 KEV	6	
27SI 89					8.724	89			
27SI 90					8.776	90	16 KEV	4	

27SI 91					8.822	91			
27SI 92					8.864	92			
27SI 93					8.872	93			
27SI 94					8.931	94			
27SI 95					8.984	95			
27SI 96					9.026	96			
27SI 97					9.066 (1/2,3/2)	97			
27SI 98					9.074	98			
27SI 99					9.140	99			
27SI 100					9.164	100			

27SI 101					9.184	101			
27SI 102					9.215	102			
27SI 103					9.227	103			
27SI 104					9.237	104			
27SI 105					9.256	105			
27SI 106					9.274	106			
27SI 107					9.308	107			
S-alpha=		9.336 (0.000)							

27SI 108					9.339	108			
27SI 109					9.363	109			
27SI 110					9.386	110			

27SI 111					9.409	111			
27SI 112					9.428	112			
27SI 113					9.438	113			
27SI 114					9.477	114			
27SI 115					9.547	115			
27SI 116					9.576	116			
27SI 117					9.615	117			
27SI 118					9.655	118			
27SI 119					9.715	119			
27SI 120					9.764	120			

27SI 121					9.791	121			
27SI 122					9.834	122			
27SI 123					9.856	123			
27SI 124					9.895	124			
27SI 125					9.916	125			

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S-p    =  7.463 ( 0.000) -----  
S-n    = 13.315 ( 0.000) -----  
S-2p   = 13.770 ( 0.000) -----  
S-2n   = 32.354 ( 0.010) -----  
S-alpha=  9.336 ( 0.000) -----  
  
S+p    = -2.052 ( 0.001)  
S+n    = -17.180 ( 0.000)  
S+2p   = -5.288 ( 0.013)  
S+2n   = -25.653 ( 0.000)  
S+alpha = -9.083 ( 0.000)  
  
gap p   =  5.411 ( 0.001)  
gap n   = -3.865 ( 0.000)  
gap 2p  =  8.482 ( 0.013)  
gap 2n  =  6.701 ( 0.010)  
gap alpha =  0.253 ( 0.000)
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