

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

Based on ENSDF from Oct 2022, 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+ TO 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			
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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			
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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			
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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	
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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+ TO 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+ TO 9/2+)	80	0.5 KEV	LT	
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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
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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
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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
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S-alpha=	9.336	( 0.000)	-----		
27SI 108			9.339		108
27SI 109			9.363		109
27SI 110			9.386		110
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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
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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
27SI 126			9.934		126

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)	