

^{28}Si $Z = 14$ $N = 14$ [link to full NNDC output](#)

Based on ENSDF from Dec 2018, and mass evaluation from 2016

BE = 236.537 (0.000) MeV

	Energy T	J+	J-	J-other	T1/2
28SI 1	0.000	0+			1 STABLE
28SI 2	1.779	2+			2 475 FS 17
28SI 3	4.618	4+			3 37 FS 4
28SI 4	4.980	0+			4 35 FS 2
28SI 5	6.276	3+			5 0.78 PS 6
28SI 6	6.691	0+			6 147 FS 10
28SI 7			6.879 3-		7 1.9 PS 2
28SI 8	6.888	4+			8 33 FS 2
28SI 9	7.381	2+			9 5 FS 2
28SI 10	7.416	2+			10 29 FS 3
28SI 11	7.799	3+			11 225 FS 10
28SI 12	7.933	2+			12 11 FS 2
28SI 13				8.259 2(+)	13 10 FS 2
28SI 14	8.328	1+			14 347 FS 166
28SI 15			8.413 4-		15 324 FS 55
28SI 16	8.544	6+			16 11.4 FS 10
28SI 17	8.589	3+			17 11 FS 2
28SI 18				8.819	18
28SI 19			8.905 1-		19 8 FS 2
28SI 20	8.945	5+			20 58 FS 6
28SI 21				8.953 (0+,1,2)	21
28SI 22				9.165 (4+)	22 28 FS 3
28SI 23	9.316 1	3+			23 1.5 FS 6
28SI 24	9.382 1	2+			24 1.1 FS 3
28SI 25	9.417	4+			25 78 FS 12
28SI 26				9.479 (2+)	26 6 FS 2
28SI 27				9.496 (1+)	27 5 FS 2
28SI 28				9.702 (5-)	28 4 PS 1
28SI 29				9.765 (3-)	29 2 FS LT
28SI 30				9.796 (2+)	30
28SI 31			9.929 1-		31
S-alpha=	9.984 (0.000)				
28SI 32				10.182 (3-)	32 7 FS 2
28SI 33				10.190 (5-,3-)	33 21 FS LT
28SI 34				10.209 (3+)	34 10 FS 3
28SI 35	10.272 1	0+			35 42 FS LT
28SI 36				10.311 (4+)	36 11 FS 4
28SI 37				10.376 1 (3+,4+)	37

28SI 38				10.418	(5+)	38	18 FS	4
28SI 39				10.514	(2+)	39		
28SI 40				10.541 0	(3-)	40		

28SI 41				10.596 0,1	(1+)	41	388 AS	83
28SI 42				10.668 0	(2,3)+	42	15 FS	3
28SI 43		10.668 0	4+			43	18 FS	3
28SI 44				10.725 0,1	(1+)	44	624 AS	110
28SI 45		10.778	1+ TO 5+			45		
28SI 46				10.806	(2+)	46		
28SI 47				10.883 1	(2,3+)	47		
28SI 48				10.900 1	(1+)	48	83 AS	7
28SI 49				10.916	(3-)	49		
28SI 50				10.944	(4+)	50	15 FS	10

28SI 51				10.953	1 TO 4	51		
28SI 52				10.994	(1,2+)	52		
28SI 53				11.079	(3-)	53		
28SI 54				11.100	(6+)	54	11.0 FS	10
28SI 55				11.142 0	(2+)	55		
28SI 56				11.195 0	(4+)	56		
28SI 57				11.242		57		
28SI 58				11.265 0	(3-)	58		
28SI 59				11.296 0	(1-)	59	150 EV	LT
28SI 60				11.332	(6+)	60	21 FS	LT

28SI 61				11.388		61		
28SI 62				11.433 0,1	(2+)	62	21 FS	LT
28SI 63				11.434 0,1	(4-)	63	14 FS	4
28SI 64				11.446 1	(1+)	64	17.6 AS	8
28SI 65				11.510 0	(6+)	65	9 FS	2
28SI 66				11.516 0	(2+)	66	200 EV	LT
28SI 67				11.572	(4,5+)	67		
28SI 68				11.576 0	(6-)	68	235 FS	70
28SI 69				11.585 0	(3-)	69	200 EV	LT
S-p = 11.585 (0.000)	-----							
28SI 70				11.657 0	(2+)	70	0.18 EV	7

28SI 71				11.670 0	(1-)	71	0.46 EV	10
28SI 72				11.779 0,1	(2+)	72	5 EV	LT
28SI 73				11.779	(5+)	73		
28SI 74				11.781	(0+ TO 4+)	74		
28SI 75				11.800	(2,3)-	75	35 EV	LT
28SI 76				11.867 1	(4+)	76	59 EV	14
28SI 77		11.900 0,(4+			77	40 EV	LT
28SI 78				11.934 0	5	78		
28SI 79				11.976 0,1	(3-,4+)	79	40 EV	LT
28SI 80				11.986	(1 TO 3)	80		

28SI 81				12.016	(2+,3)	81		

28SI 82				12.023 0	(5-)	82	250 EV	LT
28SI 83				12.071 0	(2+)	83	1.4 EV	
28SI 84				12.073	(2-)	84	80 EV	LT
28SI 85				12.152	(6+)	85	7 FS	LT
28SI 86				12.175	(5+,3-,4)	86	9 FS	2
28SI 87				12.182 0	(1-)	87	250 EV	LT
28SI 88				12.195 0	(3-)	88	6.7 EV	5
28SI 89				12.204 0	(6-,4-)	89	21 FS	LT
28SI 90				12.216 0	(2-)	90	30 EV	LT

28SI 91				12.240	(3+)	91	80 EV	LT
28SI 92				12.241 0	(4+)	92	250 EV	LT
28SI 93				12.266	(0,1)+	93		
28SI 94				12.290 0	(2+)	94	13 EV	3
28SI 95				12.295 0	(2,3)+	95	60 EV	LT
28SI 96				12.301 0	(0+,1-,2+)	96	80 EV	LT
28SI 97				12.318 0	(2-)	97	40 EV	LT
28SI 98				12.325	(4+)	98	50 EV	LT
28SI 99				12.331 1	(1+)	99	80 EV	LT
28SI 100				12.441 0	(2+)	100	18 EV	3

28SI 101				12.475 0	(4+)	101	80 EV	LT
28SI 102				12.489 0	(3-)	102	100 EV	20
28SI 103				12.542 1	(3+)	103	70 EV	14
28SI 104				12.551 0	(4+)	104	1.4 EV	
28SI 105				12.574 1	(2+)	105	110 EV	22
28SI 106				12.636 0	(2,3)+	106	60 EV	LT
28SI 107				12.643	(5-)	107	80 EV	LT
28SI 108				12.664 1	(4-)	108	700 EV	70
28SI 109				12.715 0	(0+,1+)	109	100 EV	LT
28SI 110				12.726 0	(2+)	110	250 EV	5

28SI 111				12.743 0,1	(3-)	111	5.4 KEV	5
28SI 112				12.755 0,1	(1,2)+	112	100 EV	LT
28SI 113				12.803 0	(3-)	113	100 EV	20
28SI 114				12.805 0	(1-,2+)	114	350 EV	LT
28SI 115				12.815 0	(1-)	115	3.5 KEV	10
28SI 116				12.817 0	(5+)	116	100 EV	LT
28SI 117				12.855 0,1	(4+)	117	30 EV	6
28SI 118				12.859 0	(6+,4+)	118	350 EV	LT
28SI 119				12.866 0	(2+,3+)	119	35 EV	5
28SI 120				12.900 0	(4+)	120	550 EV	60

28SI 121				12.902 0	(2+)	121	200 EV	LT
28SI 122				12.917 1	(2,3)+	122	780 EV	80
28SI 123				12.924 1	(3+)	123	600 EV	60
28SI 124				12.924 0	(2+)	124	200 EV	40
28SI 125				12.974 0	(1-)	125	250 EV	50
28SI 126				12.976 0	(0+)	126	5.2 KEV	16
28SI 127				12.990 0	(3,4)-	127	2.3 KEV	2

28SI 128			12.994	(5,6,7)+	128	16 FS	3
28SI 129			13.014		129		
28SI 130			13.033	0 (3+)	130	550 EV	60

28SI 131			13.040	0,1 (0+)	131	3.2 KEV	10
28SI 132			13.050	(2-)	132	3.7 KEV	4
28SI 133			13.094	(4+)	133	20 EV	3
28SI 134			13.104		134		
28SI 135			13.104		135	2.4 KEV	3
28SI 136			13.106	0	136	130 EV	3
28SI 137			13.115	0+1 (3,4+)	137	200 EV	LT
28SI 138			13.117	0	138		
28SI 139			13.121		139	350 EV	LT
28SI 140			13.173	0 (3-)	140	340 EV	70

28SI 141			13.189	0+1 (2+)	141	1.9 KEV	2
28SI 142			13.190	0 (1+)	142	450 EV	50
28SI 143			13.205	0 (2,3)+	143	210 EV	40
28SI 144			13.208	0 2	144	200 EV	LT
28SI 145			13.230	0 (2+)	145	1.1 KEV	1
28SI 146			13.231	(6+)	146		
28SI 147			13.234	0 (0+)	147	3.0 KEV	9
28SI 148			13.247	1 (5-)	148	200 EV	40
28SI 149			13.248	0 (3-)	149	9.6 KEV	10
28SI 150			13.272	(2-)	150	6.6 KEV	7

28SI 151			13.318	(3,4)-	151	1.2 KEV	1
28SI 152			13.321	1 (1+)	152	450 EV	60
28SI 153			13.361	0 (4+)	153	550 EV	60
28SI 154			13.415	0 (4+)	154	140 EV	30
28SI 155			13.423	0+1 (1-)	155	20 KEV	1
28SI 156			13.425	1 (5+)	156	80 EV	20
28SI 157			13.467		157		
28SI 158			13.479	(2-)	158	4.0 KEV	4
28SI 159			13.484	0+1 (2+)	159	1.5 KEV	2
28SI 160			13.492	0 (3-)	160	31 KEV	3

28SI 161			13.500		161		
28SI 162			13.510	0	162		
28SI 163			13.547	0 (2+)	163	8.5 KEV	9
28SI 164			13.557	0+1 (5+,4+)	164	150 EV	30
28SI 165			13.560	(3+)	165	1.8 KEV	2
28SI 166			13.569	(5-,4+)	166		
28SI 167			13.582	0 (6+)	167	28 FS	LT
28SI 168			13.604		168		
28SI 169			13.612	(4+,5-)	169		
28SI 170			13.616	(2-)	170	11 KEV	1

28SI 171			13.626		171		
28SI 172			13.636	0 (3+)	172	570 EV	60

28SI 173				13.640 0	(2+)	173	5.7 KEV	6
28SI 174				13.640 0	(1-,2+)	174	120 EV	20
28SI 175				13.663 0	(3,4)-	175	450 EV	50
28SI 176				13.668 0	(4+)	176	250 EV	50
28SI 177				13.679 0	(2+)	177	1.3 KEV	2
28SI 178				13.686	(2+ TO 4+)	178		
28SI 179				13.707	(2,3)+	179	500 EV	50
28SI 180				13.709 0	(4+)	180	190 EV	40

28SI 181				13.710	(4+ TO 7+)	181		
28SI 182				13.712	(3-)	182	20 KEV	2
28SI 183				13.735	(1-)	183	35 KEV	4
28SI 184				13.744	(4- TO 7-)	184	21 FS	LT
28SI 185				13.789	(3-)	185	2.7 KEV	3
28SI 186				13.798 0		186		
28SI 187				13.806 0	(4+)	187	150 EV	30
28SI 188				13.813 0	(1-)	188	3.7 KEV	4
28SI 189				13.814 0	(3+)	189	320 EV	30
28SI 190				13.821		190		

28SI 191				13.830 0	(3,4)	191	2.2 KEV	2
28SI 192				13.861 0	(3-)	192	3.9 KEV	4
28SI 193				13.874 0,1	(3-)	193	7.1 KEV	7
28SI 194				13.889 0	(3 TO 6)-	194	35 EV	7
28SI 195				13.902 0	(1-)	195	2.7 KEV	3
28SI 196				13.941 0	(2+)	196	5.2 KEV	5
28SI 197				13.968 0	(4+)	197	250 EV	50
28SI 198				13.972 0	(2+)	198	2.5 KEV	3
28SI 199				13.980 1	(4+)	199	2.6 KEV	3
28SI 200				13.983	(6-)	200	300 EV	60

28SI 201				13.984 0	(2+)	201	380 EV	60
28SI 202				14.012	(4+)	202	100 EV	2
28SI 203				14.024	(1-)	203	16 KEV	2
28SI 204				14.037	(3-,2-)	204	45 KEV	5
28SI 205				14.048	(5,4)+	205	1.2 KEV	1
28SI 206				14.049	(2+)	206	2.4 KEV	2
28SI 207				14.065	(2+)	207	6.1 KEV	6
28SI 208				14.075	(2-)	208	47 KEV	5
28SI 209				14.089	(3-)	209	4.3 KEV	4
28SI 210				14.094	(1+)	210	12 KEV	1

28SI 211				14.095	(4+)	211	830 EV	80
28SI 212				14.103	(5-)	212	240 EV	20
28SI 213				14.159	(4,3)-	213	13 KEV	1
28SI 214				14.164	(5+)	214		
28SI 215				14.199	(3+)	215	1.1 KEV	1
28SI 216				14.208	(4+)	216	1.0 KEV	1
28SI 217				14.210	(2-)	217	20 KEV	2
28SI 218				14.212	(5+)	218	600 EV	60

28SI 219			14.227	(3+)	219	2.1 KEV	2
28SI 220			14.245	(3-)	220	41 KEV	4

28SI 221			14.245	(7+)	221		
28SI 222			14.247	(2+)	222	26 KEV	3
28SI 223			14.272		223		
28SI 224			14.288		224		
28SI 225			14.294	(2+)	225	2.0 KEV	2
28SI 226			14.298	(4+)	226	1.4 KEV	1
28SI 227			14.306	(1-)	227	74 KEV	7
28SI 228			14.308	(2+)	228		
28SI 229			14.318		229		
28SI 230			14.328	(4+)	230	620 EV	120

28SI 231			14.332	(5+)	231	70 EV	15
28SI 232			14.338		232		
28SI 233			14.346	(4-)	233	2.3 KEV	2
28SI 234			14.356	(6-)	234	4.0 KEV	2
28SI 235			14.358	(4+)	235	3.5 KEV	4
28SI 236			14.358	(2-)	236	43 KEV	4
28SI 237			14.375	(2+)	237	27 KEV	3
28SI 238			14.391	(0+)	238	9.0 KEV	9
28SI 239			14.393	(3+)	239	560 EV	60
28SI 240			14.402	(4-)	240	430 EV	40

28SI 241			14.417		241		
28SI 242			14.434	(3+)	242	19 KEV	2
28SI 243			14.471	(6-)	243	180 EV	40
28SI 244			14.478		244		
28SI 245			14.493	(2+)	245	23 KEV	2
28SI 246			14.493	(3+)	246	5.9 KEV	6
28SI 247			14.515	(3-)	247	950 EV	100
28SI 248			14.523	(3-)	248	11 KEV	1
28SI 249			14.535		249	2 KEV	LT
28SI 250			14.542		250	4 KEV	2

28SI 251			14.550	(3+,4)	251	2 KEV	LT
28SI 252			14.554	(2+)	252	6 KEV	2
28SI 253			14.561		253		
28SI 254			14.572	5	254	2 KEV	LT
28SI 255			14.577	(2+)	255	2 KEV	LT
28SI 256			14.625		256		
28SI 257			14.633	(5+)	257	2 KEV	LT
28SI 258			14.643	(4+ TO 8+)	258		
28SI 259			14.650		259	10 KEV	2
28SI 260			14.687		260	4 KEV	2

28SI 261			14.709		261		
28SI 262			14.722	(4+,5)	262	2 KEV	LT
28SI 263			14.728		263	13 KEV	2

28SI 264			14.742	(3+ TO 5+)	264	2 KEV	LT
28SI 265			14.762		265	6 KEV	2
28SI 266			14.766		266	2 KEV	LT
28SI 267			14.785		267		
28SI 268			14.799		268	2 KEV	LT
28SI 269			14.803	(4+)	269	2 KEV	LT
28SI 270			14.854		270	5 KEV	2

28SI 271			14.860		271	4 KEV	2
28SI 272			14.864		272	4 KEV	2
28SI 273			14.897		273	2 KEV	LT
28SI 274			14.904		274	2 KEV	LT
28SI 275			14.926		275	10 KEV	2
28SI 276			14.954	(3,4+)	276	10 KEV	2
28SI 277			15.006		277	3 KEV	LT
28SI 278			15.021		278	2 KEV	LT
28SI 279			15.027	(5)	279	5 KEV	LT
28SI 280			15.034		280	5 KEV	2

28SI 281			15.051	(0 TO 6)-	281	2 KEV	LT
28SI 282			15.076		282	4 KEV	2
28SI 283			15.085		283	3 KEV	LT
28SI 284			15.113		284	5 KEV	2
28SI 285			15.127	(5-)	285	2 KEV	LT
28SI 286			15.153		286	5 KEV	2
28SI 287			15.183	6	287	2 KEV	LT
28SI 288			15.227	2 (0+)	288	90 EV	15
28SI 289			15.240	(4)	289	2 KEV	LT
28SI 290			15.243		290	2 KEV	LT

28SI 291			15.250		291	3 KEV	LT
28SI 292			15.264		292	4 KEV	2
28SI 293			15.267		293	4 KEV	2
28SI 294			15.272		294	2 KEV	LT
28SI 295			15.292		295	2 KEV	LT
28SI 296			15.357		296	3 KEV	LT
28SI 297			15.386		297	2 KEV	LT
28SI 298			15.403	(5)	298	2 KEV	LT
28SI 299			15.494	(0 TO 6)-	299		
28SI 300			15.915	(6+)	300		

S-p = 11.585 (0.000)-----
S-n = 17.180 (0.000)-----
S-2p = 19.856 (0.000)-----
S-2n = 30.494 (0.000)-----
S-alpha= 9.984 (0.000)-----

S+p = -2.749 (0.000)

S+n = -8.474 (0.000)
S+2p = -7.144 (0.000)
S+2n = -19.083 (0.000)
S+alpha = -6.948 (0.000)

gap p = 8.836 (0.000)
gap n = 8.706 (0.000)
gap 2p = 12.712 (0.000)
gap 2n = 11.412 (0.000)
gap alpha = 3.037 (0.000)