

^{32}S $Z = 16$ $N = 16$ [link to full NNDC output](#)

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

BE = 271.780 (0.000) MeV

	Energy T	J+	J-	J-other	T1/2
32S 1	0.000	0+			1 STABLE
32S 2	2.231	2+			2 169 FS 11
32S 3	3.778	0+			3 0.89 PS 9
32S 4	4.282	2+			4 42 FS 4
32S 5	4.459	4+			5 124 FS 27
32S 6	4.695	1+			6 286 FS 74
32S 7			5.006 3-		7 0.52 PS 3
32S 8	5.413	3+			8 148 FS 19
32S 9	5.549	2+			9 57 FS 8
32S 10			5.797 1-		10 5.6 FS 9
32S 11			6.223 2-		11 66 FS 12
32S 12	6.411	4+			12 24.3 FS 35
32S 13				6.582 (2+,3-)	13
32S 14			6.622 4-		14 0.36 PS 6
32S 15	6.666	2+			15 40 FS 10
32S 16			6.762 5-		16 260 FS 35
32S 17	6.852	4+			17 66 FS 17
S-alpha=	6.948 (0.000)				
32S 18	7.001	1+			18 1.5 FS 5
32S 19	7.115	2+			19 1.73 FS 35
32S 20	7.190	1+			20 8.0 FS 21
32S 21				7.350 3(+)	21
32S 22				7.367	22
32S 23			7.434 1-		23 7.7 FS 10
32S 24	7.484	2+			24 4.9 FS 12
32S 25	7.536	0+			25 2.6 FS 7
32S 26	7.567	5+			26 150 FS 32
32S 27				7.637 1	27
32S 28				7.648	28
32S 29			7.701 3-		29 66 FS 19
32S 30			7.883 4-		30
32S 31	7.921	1+			31
32S 32			7.950 4-		32 146 FS 35
32S 33			7.975 4-		33 21 FS LT
32S 34	8.125	1+			34 0.144 FS 21
32S 35				8.191 4	35
32S 36				8.270 3-,5-	36 60 FS LT
32S 37			8.296 3-		37

32S	38	8.336	2+					38	
32S	39					8.346	4+,6+	39 28 FS LT	
32S	40					8.380		40	

32S	41					8.407	2	41	
32S	42			8.499	1-			42 1.30 FS 24	
32S	43					8.672		43	
32S	44					8.684		44	
32S	45					8.688		45	
32S	46	8.729	3+					46	
32S	47					8.737		47	
32S	48					8.742		48	
32S	49					8.746	3	49	
32S	50					8.751		50	

32S	51					8.783		51	
32S	52					8.797		52	
32S	53					8.810		53	
32S	54					8.839		54	
32S	55	8.861	2+					55	
S-p	=	8.864	(0.000)	-----					
32S	56					8.895		56	
32S	57					8.906		57	
32S	58					8.922		58	
32S	59					8.942		59	
32S	60					8.945		60	

32S	61					8.954		61	
32S	62					8.977		62	
32S	63					8.985		63	
32S	64					9.007		64	
32S	65					9.009		65	
32S	66					9.013		66	
32S	67			9.024	4-			67 0.27 PS 6	
32S	68					9.031		68	
32S	69					9.042		69	
32S	70					9.055		70	

32S	71			9.059	1-			71	
32S	72					9.065		72 14 FS LT	
32S	73					9.088		73	
32S	74					9.091		74	
32S	75					9.140		75	
32S	76					9.159		76	
32S	77	9.170	3+					77	
32S	78	9.196	2+					78	
32S	79					9.201		79	
32S	80	9.208	1+					80 4.2 FS 14	

32S	81					9.211		81	

32S	82				9.211		82		
32S	83			9.235	1-		83	60 FS	LT
32S	84		9.253	2+			84		
32S	85				9.268		85		
32S	86				9.272		86		
32S	87				9.280		87		1
32S	88				9.288		88		
32S	89		9.289	1+			89		
32S	90				9.297		90		

32S	91				9.309		91		
32S	92				9.317		92		
32S	93				9.345		93		
32S	94				9.358		94		
32S	95				9.361		95		
32S	96		9.388	2+			96		
32S	97				9.395		97		
32S	98				9.397		98		
32S	99				9.402		99		
32S	100				9.436		100		

32S	101				9.451		101		
32S	102				9.463		102	70 FS	LT
32S	103		9.466	2+			103	49 FS	LT
32S	104				9.481		104		
32S	105			9.486	1-		105	8.2 EV	25
32S	106				9.500		106		
32S	107				9.516		107		
32S	108				9.524		108		
32S	109				9.534		109		
32S	110				9.535		110		

32S	111				9.561		111		
32S	112				9.562		112		1-,2-
32S	113				9.597		113		
32S	114				9.619		114		
32S	115				9.635		115	0.09 PS	6
32S	116			9.650	6-		116		
32S	117		9.650	2+			117		
32S	118				9.655		118		
32S	119				9.657		119		
32S	120		9.660	1+			120	2.4 EV	7

32S	121				9.665		121		
32S	122				9.672		122		
32S	123				9.675		123		
32S	124				9.693		124		
32S	125				9.704		125	2.2 KEV	
32S	126		9.712	2+			126	3.6 EV	
32S	127				9.724		127		2,3,4

32S 128						9.728				128
32S 129						9.731	1-,2-			129
32S 130						9.783	6			130 0.14 FS +13-11

32S 131						9.809				131 1.0 KEV
32S 132						9.817	3-,4-			132
32S 133						9.827				133
32S 134				9.848		1-				134 0.100 KEV 10
32S 135						9.883				135
32S 136						9.887	2+,3+			136 0.010 KEV 5
32S 137		9.919		2+						137 0.010 KEV 5
32S 138						9.935	1			138 1.0 KEV
32S 139				9.947		1-				139 0.150 KEV 15
32S 140						9.978	4			140

32S 141						9.978	3			141
32S 142						9.983	2,0+			142 0.100 KEV 10
32S 143						9.988	3-,4-			143 4 KEV AP
32S 144						9.997				144 4.7 KEV
32S 145						10.021	3-,4-			145 6.6 KEV
32S 146				10.073		2-				146 1.50 KEV 15
32S 147						10.079	(1)			147 1.7 KEV 4
32S 148				10.090		2-				148
32S 149						10.102	4(+)			149
32S 150						10.113				150

32S 151						10.133				151 5.0 KEV
32S 152						10.182				152 6.3 KEV
32S 153		10.219		3+						153 0.010 KEV 5
32S 154				10.221		3-				154 0.056 KEV 10
32S 155						10.225				155 0.18 KEV 2
32S 156		10.230		1+						156 0.025 KEV 3
32S 157				10.256		4-				157 0.035 KEV 4
32S 158		10.276		4+						158
32S 159				10.286		3-				159 0.16 KEV 2
32S 160						10.290	2			160 0.125 KEV 13

32S 161						10.292	3			161 0.07 KEV 1
32S 162						10.310				162 1 KEV
32S 163				10.331		1-				163 6.1 KEV 7
32S 164						10.337				164 9 KEV 2
32S 165						10.369	(0+)			165 5.8 KEV
32S 166		10.371		2+						166 0.025 KEV 3
32S 167				10.397		4-				167 0.012 KEV 2
32S 168						10.405				168 11 KEV 4
32S 169						10.417				169 6.3 KEV
32S 170						10.428	2+,3+,3-,4-			170

32S 171		10.456		1+						171 2.9 KEV
32S 172						10.493				172 4.0 KEV

32S 173				10.500	(0+)	173	1.7 KEV
32S 174				10.508		174	0.010 KEV 5
32S 175				10.534	3-,4-	175	1.8 KEV
32S 176				10.556		176	
32S 177				10.570	(0+)	177	1.2 KEV
32S 178	10.574	5+				178	0.015 KEV 2
32S 179				10.604		179	0.15 KEV 2
32S 180				10.624	3-,4-	180	3.1 KEV

32S 181				10.636		181	14.9 KEV
32S 182				10.658	(1-)	182	2.3 KEV
32S 183				10.678		183	7.6 KEV
32S 184				10.696		184	0.18 KEV 2
32S 185			10.700	1-		185	21 KEV 4
32S 186				10.705	1-,2-	186	20 KEV 3
32S 187				10.745	(0+)	187	8.9 KEV
32S 188				10.757	3(+)	188	0.05 KEV 1
32S 189	10.779	2+				189	0.62 KEV 7
32S 190				10.784		190	0.75 KEV 8

32S 191				10.785		191	0.60 KEV 6
32S 192				10.791	1	192	0.17 KEV 2
32S 193				10.806	2	193	
32S 194				10.816	(3-,5-)	194	4.7 KEV
32S 195			10.825	2-		195	22 KEV 4
32S 196				10.827		196	0.32 KEV 3
32S 197				10.830		197	4 KEV AP
32S 198				10.832	2,(3)	198	2.5 KEV AP
32S 199				10.841	2	199	0.4 KEV AP
32S 200				10.851	1	200	

32S 201				10.868	(2+)	201	7.7 KEV
32S 202			10.880	6-		202	
32S 203	10.907	1+				203	2.1 KEV
32S 204				10.915		204	
32S 205				10.934	3	205	
32S 206				10.941	1	206	9.3 KEV
32S 207				10.956	(0+)	207	2.9 KEV
32S 208				10.977	(1-,2-)	208	
32S 209			10.980	6-		209	
32S 210				10.988		210	4.0 KEV

32S 211				10.998	(4)	211	
32S 212	11.010	4+				212	5.1 KEV
32S 213				11.020	(1-,2-)	213	
32S 214				11.052	(4)	214	
32S 215	11.064	2+				215	
32S 216				11.078	2	216	3.0 KEV
32S 217			11.092	3-		217	
32S 218				11.107	(2+)	218	67.4 KEV

32S 219						11.114		219
32S 220						11.123		220

32S 221						11.130	(0+)	221 1.8 KEV
32S 222						11.131	1	222
32S 223		11.140		1+				223
32S 224				11.170		6-		224
32S 225						11.175		225 8.0 KEV
32S 226						11.198	3-,4-	226
32S 227						11.236	3	227 9 KEV
32S 228						11.254	(3-)	228 1.1 KEV
32S 229						11.333		229
32S 230						11.366		230

32S 231						11.410	(3-)	231 1.9 KEV
32S 232						11.425	1	232 4 KEV AP
32S 233						11.438		233
32S 234						11.475	3	234
32S 235		11.486		1+				235
32S 236						11.554	(0,1)	236 6.1 KEV
32S 237				11.590		1-		237 10.7 KEV
32S 238						11.602		238
32S 239		11.620		1+				239
32S 240						11.629	(1,2+,3-)	240 5.7 KEV

32S 241						11.637		241
32S 242						11.648	1	242 6.6 KEV
32S 243						11.660		243
32S 244		11.670		5+				244
32S 245						11.690	(3-)	245 1.2 KEV
32S 246		11.697		5+				246
32S 247						11.720		247
32S 248						11.750	1	248
32S 249						11.759		249
32S 250						11.783	1	250 30 KEV

32S 251						11.806	1,2	251
32S 252						11.823	1-,2-	252
32S 253						11.848	(3-)	253 10.4 KEV
32S 254						11.861		254
32S 255						11.876		255
32S 256						11.883	1	256 7.6 KEV
32S 257						11.900		257
32S 258				11.936		3-		258 7.3 KEV
32S 259				11.940		6-		259 86 KEV 24
32S 260						11.940	3	260

32S 261						11.955	(2+,3-)	261 3.2 KEV
32S 262						12.002	2	262 11.8 KEV
32S 263						12.030		263

32S 264						12.044				264
32S 265						12.044		2,3,4		265
32S 266		12.048		0+						266
32S 267						12.050		(2+,3-)		267
32S 268						12.124		2		268 6.9 KEV
32S 269						12.160		(3+,2+)		269 22 KEV
32S 270						12.196		1-		270

32S 271						12.198		(3-)		271 6.4 KEV
32S 272						12.235		(2+,3+)		272
32S 273						12.260		[3-]		273
32S 274						12.270		0		274 21 KEV
32S 275						12.308				275
32S 276						12.340				276
32S 277						12.362		3,(2)		277 4.8 KEV
32S 278						12.393		3		278 7.7 KEV
32S 279						12.426		3,2		279 13.9 KEV
32S 280						12.465		2		280 7.8 KEV

32S 281						12.491		(2,1)		281 18.6 KEV
32S 282						12.510		[3-]		282
32S 283						12.553		2		283 8.4 KEV
32S 284						12.560		1		284
32S 285						12.568		2		285 3.0 KEV
32S 286						12.600		3,2		286 7.9 KEV
32S 287						12.630		6-		287
32S 288		12.650		1+						288 0.10 MEV LT
32S 289						12.710		(5-,3-)		289 5 KEV
32S 290						12.740		6-		290

32S 291		12.760		6+						291 84 KEV 24
32S 292						12.770		(2+)		292 10 KEV
32S 293						12.830		(3-)		293 1 KEV
32S 294						12.860		(3-)		294 38 KEV
32S 295						12.910		(3-)		295 8 KEV
32S 296						12.930		(3-)		296 29 KEV 5
32S 297		12.980		1+						297
32S 298						13.040		(4+)		298 47 KEV LT
32S 299						13.086		(3-)		299 26 KEV 7
32S 300						13.220		[3-]		300 0.06 MEV LT

32S 301						13.230		1		301
32S 302						13.260		6-		302
32S 303						13.268		(3-)		303 49 KEV 3
32S 304						13.339		(3-)		304 28.8 KEV 13
32S 305						13.410		1+,(2-)		305
32S 306						13.430		3-,4-		306
32S 307						13.490		(3-)		307 54 KEV 5
32S 308						13.540		5-		308
32S 309						13.588		(3-)		309 18 KEV 4

32S	310				13.655	(3-)	310	74 KEV	2

32S	311				13.696	(4+,3-)	311	23.6 KEV	9
32S	312	13.760	6+				312	50 KEV	24
32S	313	13.780	1+				313		
32S	314				13.807	(3-)	314	47.4 KEV	8
32S	315				13.870	(5-,3-)	315	22.0 KEV	11
32S	316				13.896	(4+)	316	22.4 KEV	1
32S	317				13.900	1	317		
32S	318				13.970	1+, (2-)	318		
32S	319				14.000	(7-)	319	50 KEV	24
32S	320				14.070	(3-)	320	29.6 KEV	7

32S	321				14.131	(5-)	321	15.2 KEV	6
32S	322				14.177	(4+)	322	42.0 KEV	11
32S	323				14.234	(3-)	323	89 KEV	2
32S	324			14.290	6-		324		
32S	325				14.429	(3-)	325	40 KEV	2
32S	326	14.450	1+				326		
32S	327				14.542	(4+,5-)	327	84.5 KEV	11
32S	328				14.633	(5-)	328	7.0 KEV	9
32S	329				14.730	[4+]	329		
32S	330			14.770	2-		330	0.08 MEV	LT

32S	331				14.810	(8+)	331	91 KEV	24
32S	332				14.832	(4+)	332	37.5 KEV	5
32S	333				14.878	(4+)	333	25.5 KEV	7
32S	334				14.880	1	334		
32S	335				15.025	(4+)	335	30.5 KEV	11
32S	336				15.040	1	336		
S-n	=	15.044	(0.000)	-----					
32S	337				15.116	(5-)	337	36 KEV	2
32S	338	15.200	6+				338	119 KEV	24
32S	339				15.230	(4+,5-)	339	18 KEV	2
32S	340				15.344	(5-)	340	45.9 KEV	1

32S	341				15.385	(5-)	341	24.5 KEV	6
32S	342				15.441	(5-)	342	34.3 KEV	3
32S	343				15.527	(5-)	343	46.8 KEV	3
32S	344				15.580	1	344		
32S	345				15.600		345		
32S	346				15.631	(5-)	346	29.9 KEV	3
32S	347				15.686	(5-,6+)	347	35.9 KEV	1
32S	348				15.700	1	348		
32S	349				15.758	(6+,5-)	349	41.0 KEV	9
32S	350				15.840	1	350		

32S	351				15.847	(4+,5-)	351	47 KEV	2
32S	352				15.894	(5-,4+)	352	28.0 KEV	8
32S	353				15.955	(6+)	353	21.6 KEV	5

32S	354				16.052	(5-)		354	54 KEV	2
S-2p = 16.160 (0.000)-----										
32S	355				16.243	(6+)		355	41.3 KEV	8
32S	356				16.250	[5-]		356		
32S	357		16.310	6-				357		
32S	358				16.341	(5-)		358	86 KEV	2
32S	359				16.370	[5-]		359		
32S	360		16.430	6-				360		

32S	361				16.495	(5-)		361	64 KEV	3
32S	362				16.615	(6+)		362	60 KEV	2
32S	363		16.650	6-				363		
32S	364				16.691	(5-,6+)		364	23 KEV	2
32S	365				16.747	(6+)		365	45 KEV	2
32S	366				16.795	(6+)		366	76 KEV	6
32S	367				16.866	(6+)		367	38.1 KEV	6
32S	368				16.920	(6+)		368	35.0 KEV	8
32S	369				16.978	(6+)		369	47 KEV	3
32S	370				17.080	(6+)		370	58.0 KEV	14

32S	371		17.120	6-				371		
32S	372		17.180	6-				372		
32S	373				17.250	(5-)		373	92 KEV	14
32S	374				17.393	(7-)		374	35 KEV	6
32S	375				17.420	[7-]		375		
32S	376				17.570	[7-]		376		
32S	377				17.656	(7-)		377	36 KEV	2
32S	378				17.688	(7-)		378	26 KEV	2
32S	379				17.868	(6+,7-)		379	82 KEV	7
32S	380				17.880	[7-]		380		

32S	381				17.934	(7-)		381	48 KEV	4
32S	382				18.042	(7-)		382	44 KEV	2
32S	383				18.213	(7-)		383	76 KEV	7
32S	384				18.400	[9-]		384		
32S	385				18.458	(7-)		385	66 KEV	5
32S	386				18.554	(7-)		386	73.6 KEV	14
32S	387				18.660	(7-)		387	74 KEV	5
32S	388				18.736	(7-)		388	75 KEV	6
32S	389				18.803	(8+,7-)		389	46 KEV	3
32S	390				18.810	[7-]		390		

32S	391				18.986	(8+,7-)		391	34 KEV	2
32S	392				19.119	(8+,7-)		392	84 KEV	7
32S	393				19.190	[7-]		393		
32S	394				19.248	(8+)		394	54 KEV	10
32S	395				19.250	[7-]		395		
32S	396				19.442	(7-,8+)		396	72 KEV	2
32S	397				19.450	[7-]		397		
32S	398				19.551	(8+)		398	75 KEV	18

32S	399				19.653	(8+)	399	54 KEV	2
32S	400				19.747	(8+,7-)	400	79 KEV	9

S-p = 8.864 (0.000)-----
S-n = 15.044 (0.000)-----
S-2p = 16.160 (0.000)-----
S-2n = 28.099 (0.000)-----
S-alpha= 6.948 (0.000)-----

S+p = -2.277 (0.000)
S+n = -8.642 (0.000)
S+2p = -6.941 (0.000)
S+2n = -20.059 (0.000)
S+alpha = -6.641 (0.000)

gap p = 6.587 (0.000)
gap n = 6.403 (0.000)
gap 2p = 9.220 (0.000)
gap 2n = 8.040 (0.000)
gap alpha = 0.307 (0.000)