^{34}S $Z = 16$ $N = 18$ link to full NNDC output

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

BE = 291.839 (0.000) MeV

	Energy	T	J+	Energy	T	J-	Energy	J-other	T	T1/2	
34S	1	0.000	0+						1	STABLE	
34S	2	2.128	2+						2	318 FS	8
34S	3	3.304	2+						3	136 FS	7
34S	4	3.916	0+						4	1.12 PS	9
34S	5	4.075	1+						5	17 FS	LT
34S	6	4.115	2+						6	73 FS	6
34S	7			4.624		3-			7	84 FS	5
34S	8	4.689	4+						8	88 FS	4
34S	9	4.877	3+						9	40 FS	15
34S	10	4.882	4+						10		
34S	11	4.890	2+						11	29 FS	10
34S	12	5.228	0+						12		
34S	13						5.323	2(-)	13	17 FS	6
34S	14	5.381	1+						14	49 FS	LT
34S	15			5.680		3-			15		
34S	16			5.691		5-			16	36.9 PS	15
34S	17			5.756		1-			17		
34S	18	5.848	0+						18		
34S	19	5.998	2+						19		
34S	20	6.121	2+						20		
34S	21			6.169		3-			21		
34S	22	6.251	4+						22	0.42 PS	+49-21
34S	23			6.252		4-			23		
34S	24			6.343		1-			24		
34S	25			6.421		4-			25		
34S	26						6.428	(2+)	26		
34S	27			6.479		1-			27		
34S	28						6.535		28		
34S	29						6.639	4(-)	29	42 FS	10
34S	30						6.685	(0:3)-	30		
34S	31						6.731	2(+),4(+)	31		
34S	32	6.829	2+						32		
34S	33						6.848	(1,2+)	33		
34S	34			6.864		5-			34	27 FS	7
34S	35						6.890	(3,4)+	35	14 FS	LT
34S	36						6.954	(2)-	36		
34S	37			7.110		3-			37		
34S	38	7.112	2+						38		

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 34S   39 |                |                |   7.164     (0:3)+          39
 34S   40 |                |                |   7.219     (2+)            40
----------                                                                ----------------
 34S   41 |                |                |   7.248     (4)             41  14 FS     7
 34S   42 |                |                |   7.248     (2+,3-)         42
 34S   43 |                |                |   7.264                     43
 34S   44 |                |                |   7.367     (1+,2+)         44
 34S   45 |                |   7.388     3- |                             45
 34S   46 |                |                |   7.392     5,(4)           46  159 FS    35
 34S   47 |                |                |   7.468     (0+,1,2)        47
 34S   48 |                |                |   7.553     (1,2,3-)        48
 34S   49 |                |   7.630     3- |                             49  14 FS     7
 34S   50 |                |                |   7.655     (-)             50
----------                                                                ----------------
 34S   51 |                |                |   7.731     (1-,2-,3-)      51
 34S   52 |  7.750     2+  |                |                             52
 34S   53 |                |                |   7.781     (1)-            53
 34S   54 |                |   7.791     6- |                             54   97 FS    20
 34S   55 |  7.805     2+  |                |                             55
S-alpha=   7.924 ( 0.000)-------------------------------------------------------------------------
 34S   56 |                |                |   7.975     (1,2+)          56
 34S   57 |  8.025     0+  |                |                             57
 34S   58 |                |                |   8.036     (1-,2+)         58
 34S   59 |                |                |   8.083     5               59  44 FS     7
 34S   60 |                |                |   8.138     (1)-            60
----------                                                                ----------------
 34S   61 |                |                |   8.175     (1,2+)          61
 34S   62 |                |                |   8.185     (1)+            62
 34S   63 |                |                |   8.205     (1-:4+)         63
 34S   64 |  8.255     2+  |                |                             64
 34S   65 |                |                |   8.293     4               65  28 FS     LT
 34S   66 |                |                |   8.294     (0+:3-)         66
 34S   67 |                |   8.371     7- |                             67  83 FS     13
 34S   68 |                |   8.385     1- |                             68
 34S   69 |  8.423     4+  |                |                             69
 34S   70 |  8.504     6+  |                |                             70  28 FS     7
----------                                                                ----------------
 34S   71 |                |   8.507     1- |                             71
 34S   72 |                |                |   8.580                     72
 34S   73 |                |                |   8.616     (2-,3+)         73
 34S   74 |                |                |   8.656     (1)+            74
 34S   75 |                |                |   8.671                     75
 34S   76 |                |                |   8.702     (1-,2)          76
 34S   77 |                |                |   8.718                     77
 34S   78 |                |                |   8.728     (1-,2+)         78
 34S   79 |                |                |   8.735     6(-)            79
 34S   80 |                |                |   8.792                     80
----------                                                                ----------------
 34S   81 |                |                |   8.806     (1,2+)          81
 34S   82 |                |                |   8.874     (1-,2,3+)       82
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34S	83					8.953		83			
34S	84					8.971	6(-)	84			
34S	85					8.987		85			
34S	86					9.026	(1,2+)	86			
34S	87					9.120		87			
34S	88					9.159	(1,2+)	88			
34S	89					9.171		89			
34S	90					9.208	(1,2+)	90			
34S	91					9.226		91			
34S	92					9.347		92			
34S	93					9.414	6(-)	93			
34S	94					9.429		94			
34S	95					9.445		95			
34S	96					9.479	(1)+	96			
34S	97					9.546	(1,2+)	97			
34S	98					9.566		98			
34S	99					9.598		99			
34S	100					9.640	(1,2+)	100			
34S	101					9.666		101			
34S	102					9.706	(1,2+)	102			
34S	103					9.802	(1,2+)	103			
34S	104					9.837		104			
34S	105					9.868	(1)+	105			
34S	106					9.913	7(+)	106	184	FS	38
34S	107			9.933	1-			107			
34S	108			9.981	1-			108			
34S	109	10.000	1+					109			
34S	110					10.092		110			
34S	111					10.097		111			
34S	112					10.140		112			
34S	113			10.169	1-			113			
34S	114					10.170	(1)+	114			
34S	115					10.180	(1,2,3)	115			
34S	116	10.180	1+					116			
34S	117					10.201		117			
34S	118					10.212		118			
34S	119					10.236		119			
34S	120			10.248	1-			120			
34S	121	10.312	2+					121			
34S	122					10.385		122			
34S	123					10.400	8(-)	123			
34S	124	10.407	2+					124			
34S	125	10.430	1+					125			
34S	126					10.447		126			
34S	127			10.493	1-			127			
34S	128					10.528		128			

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 34S  129 |                |  10.586     1-  |                          129
 34S  130 |                |                 |  10.616                  130
----------                                                               ----------
 34S  131 |                |  10.625     1-  |                          131
 34S  132 |                |                 |  10.650                  132
 34S  133 | 10.652     8+  |                 |                          133   35 FS    17
 34S  134 |                |                 |  10.660     1+,(2-)      134
 34S  135 |                |                 |  10.662                  135
 34S  136 |                |  10.670     1-  |                          136
 34S  137 |                |                 |  10.700     (6+)         137
 34S  138 |                |                 |  10.704                  138
 34S  139 | 10.767     2+  |                 |                          139
 34S  140 |                |  10.791     1-  |                          140
----------                                                               ----------
 34S  141 | 10.800     1+  |                 |                          141
 34S  142 |                |                 |  10.803     (1,2+)       142
 34S  143 |                |  10.841     3-  |                          143
 34S  144 |                |                 |  10.868                  144
S-p    =  10.883 ( 0.001)-------------------------------------------------------------------------
 34S  145 |                |                 |  10.895                  145
 34S  146 |                |                 |  10.916                  146
 34S  147 |                |  10.930     1-  |                          147
 34S  148 | 10.994     2+  |                 |                          148
 34S  149 | 11.014     2+  |                 |                          149
 34S  150 | 11.020     1+  |                 |                          150
----------                                                               ----------
 34S  151 |                |  11.025     1-  |                          151
 34S  152 |                |                 |  11.047                  152
 34S  153 | 11.087     2+  |                 |                          153
 34S  154 |                |  11.107     3-  |                          154
 34S  155 |                |  11.141     1-  |                          155
 34S  156 |                |  11.165     1-  |                          156
 34S  157 |                |                 |  11.179                  157
 34S  158 |                |                 |  11.193                  158
 34S  159 |                |                 |  11.220     (2+)         159
 34S  160 |                |  11.233     1-  |                          160
----------                                                               ----------
 34S  161 | 11.272     2+  |                 |                          161
 34S  162 |                |                 |  11.288                  162
 34S  163 | 11.314     2+  |                 |                          163
 34S  164 |                |  11.323     1-  |                          164
 34S  165 | 11.350     1+  |                 |                          165
 34S  166 |                |  11.357     1-  |                          166
 34S  167 |                |  11.371     3-  |                          167
 34S  168 |                |                 |  11.374     8(+)         168
 34S  169 | 11.380     2+  |                 |                          169
 34S  170 |                |                 |  11.398                  170
----------                                                               ----------
 34S  171 |                |                 |  11.405                  171
 34S  172 | 11.411     2+  |                 |                          172
```

S-n = 11.417 (0.000)										
34S	173					11.417	1+,2+		173	
34S	174			11.419	1-				174	
34S	175	11.430	2+						175	0.116 KEV 20
34S	176			11.434	2-				176	0.049 KEV 10
34S	177			11.440	3-				177	0.0198 KEV10
34S	178					11.448			178	0.015 KEV LT
34S	179			11.457	3-				179	
34S	180	11.468	2+						180	0.368 KEV 8
34S	181			11.469	3-				181	0.152 KEV 15
34S	182			11.473	1-				182	
34S	183			11.475	2-				183	0.45 KEV 6
34S	184			11.486	1-				184	
34S	185			11.493	2-				185	0.51 KEV 10
34S	186	11.496	2+						186	0.71 KEV 3
34S	187			11.499	1-				187	
34S	188	11.500	1+						188	
34S	189			11.502	1-				189	0.292 KEV 25
34S	190					11.503	(1-)		190	0.26 KEV 5
34S	191			11.515	2-				191	1.262 KEV 25
34S	192			11.541	1-				192	0.63 KEV 7
34S	193			11.544	1-				193	0.20 KEV 4
34S	194					11.546			194	0.23 KEV 4
34S	195					11.551			195	0.15 KEV 3
34S	196					11.564	GE 1		196	
34S	197					11.575	(0-)		197	
34S	198			11.581	2-				198	3.42 KEV 8
34S	199			11.590	2-				199	0.76 KEV 4
34S	200			11.608	3-				200	0.62 KEV 3
34S	201					11.610			201	0.70 KEV 14
34S	202			11.614	3-				202	2.1 KEV 8
34S	203					11.622			203	0.31 KEV 6
34S	204					11.626			204	0.12 KEV LT
34S	205	11.632	2+						205	0.75 KEV 7
34S	206	11.634	0+						206	5.3 KEV 10
34S	207			11.639	3-				207	0.96 KEV 6
34S	208			11.642	1-				208	
34S	209			11.649	3-				209	0.61 KEV 12
34S	210			11.669	2-				210	0.40 KEV 8
34S	211	11.670	1+						211	0.55 KEV 11
34S	212					11.704			212	0.61 KEV 12
34S	213			11.706	1-				213	0.79 KEV 16
34S	214					11.717			214	0.67 KEV 14
34S	215					11.743			215	0.28 KEV 6
34S	216					11.751			216	
34S	217					11.774			217	0.40 KEV 8

34S	218					11.784		218	1.40 KEV 25
34S	219					11.789		219	
34S	220					11.797		220	1.30 KEV 25
34S	221					11.807	8(+)	221	
34S	222					11.830		222	1.7 KEV 3
34S	223					11.849		223	
34S	224					11.858		224	
34S	225					11.869		225	3.3 KEV 5
34S	226					11.878		226	
34S	227					11.908		227	
34S	228					11.921	(3-)	228	
34S	229			11.931	1-			229	
34S	230					11.949		230	2.3 KEV 4
34S	231			11.956	3-			231	
34S	232					11.978		232	
34S	233			12.033	1-			233	
34S	234					12.062		234	
34S	235					12.076		235	
34S	236			12.099	1-			236	
34S	237	12.120	1+					237	
34S	238					12.136		238	
34S	239					12.141	9(+)	239	173 FS 35
34S	240					12.150		240	
34S	241					12.164		241	
34S	242					12.172		242	
34S	243			12.180	2-			243	
34S	244			12.193	1-			244	
34S	245					12.223		245	
34S	246					12.242		246	
34S	247					12.255		247	
34S	248					12.270		248	
34S	249					12.280		249	
34S	250					12.460	1+,(2-)	250	
34S	251	12.660	1+					251	
34S	252					12.930	2-,(1+)	252	
34S	253					12.986	(9+)	253	
34S	254					13.320	(9-)	254	
34S	255					13.342	10(+)	255	180 FS 28
34S	256			13.590	2-			256	
34S	257			13.790	2-			257	
34S	258					13.960	(10+)	258	
34S	259	13.990	1+					259	
34S	260					14.200	1+,(2-)	260	
34S	261					14.320	2-,(1+)	261	
34S	262					14.430	1+,(2-)	262	

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 34S  263 |                |                |  14.576     (10+)           263
 34S  264 |                |  14.800     2- |                             264
 34S  265 |                |                |  15.244     (10,11,12+)     265
 34S  266 |                |                |  15.281     (10)            266
 34S  267 |                |                |  16.649     (10,11,12+)     267


S-p    =  10.883 ( 0.001)-------------------------------------------------------------------
S-n    =  11.417 ( 0.000)-------------------------------------------------------------------
S-2p   =  20.432 ( 0.000)-------------------------------------------------------------------
S-2n   =  20.059 ( 0.000)-------------------------------------------------------------------
S-alpha=   7.924 ( 0.000)-------------------------------------------------------------------

S+p       =  -6.371 ( 0.000)
S+n       =  -6.986 ( 0.000)
S+2p      = -14.878 ( 0.000)
S+2n      = -16.875 ( 0.000)
S+alpha   =  -7.208 ( 0.000)

gap p     =   4.513 ( 0.001)
gap n     =   4.431 ( 0.000)
gap 2p    =   5.554 ( 0.000)
gap 2n    =   3.184 ( 0.000)
gap alpha =   0.716 ( 0.000)
```