

^{61}Ni $Z = 28$ $N = 33$ adopted link ENSDF link

Based on ENSDF from Oct 2022, and mass evaluation from 2020

BE = 534.667 (0.000) MeV

	Energy T	J+	J-	J-other	T1/2
61NI 1			0.000	3/2-	1 STABLE
61NI 2			0.067	5/2-	2 5.34 NS 16
61NI 3			0.283	1/2-	3 23 PS 3
61NI 4			0.656	1/2-	4 17 PS 4
61NI 5			0.909	5/2-	5 0.7 PS 4
61NI 6				0.918 (7/2)-	6
61NI 7			1.015	7/2-	7 4.4 PS 6
61NI 8			1.100	3/2-	8 0.16 PS 4
61NI 9			1.132	5/2-	9 0.32 PS 3
61NI 10			1.185	3/2-	10 0.12 PS 3
61NI 11			1.455	7/2-	11 0.58 PS 25
61NI 12			1.610	5/2-	12 0.26 PS 4
61NI 13			1.729	3/2-	13 0.065 PS 11
61NI 14			1.808	9/2-	14 0.6 PS 5
61NI 15				1.978	15
61NI 16			1.988	9/2-	16 0.51 PS 18
61NI 17			1.998	5/2-	17 0.045 PS 7
61NI 18			2.018	7/2-	18 0.12 PS +8-3
61NI 19	2.121	9/2+			19 0.40 PS +74-12
61NI 20			2.124	1/2-	20 0.044 PS 15
61NI 21			2.129	11/2-	21 2 PS GT
61NI 22			2.410	9/2-	22 0.19 PS 4
61NI 23				2.415 (3/2-)	23
61NI 24			2.465	7/2-	24 0.236 PS +21-7
61NI 25				2.530 5/2-,7/2-	25
61NI 26			2.593	7/2-	26
61NI 27				2.639 1/2-,3/2-	27
61NI 28	2.696	5/2+			28
61NI 29				2.708 (3/2-,5/2+)	29
61NI 30				2.734 (7/2-)	30
61NI 31			2.765	3/2-	31
61NI 32				2.786 5/2-,7/2-	32
61NI 33				2.800	33
61NI 34				2.853 5/2-,7/2-	34
61NI 35				2.863 1/2-,3/2-	35
61NI 36			2.913	7/2-	36
61NI 37				3.040 (1/2-,3/2-)	37
61NI 38	3.062	1/2+			38

61NI 39						3.099	(3/2-)	39
61NI 40						3.105		40

61NI 41						3.115	5/2-,7/2-	41
61NI 42				3.138	7/2-			42
61NI 43						3.145	(1/2-,3/2)	43
61NI 44						3.175	(1/2-,3/2-)	44
61NI 45						3.232	1/2-,3/2-	45
61NI 46						3.247		46
61NI 47						3.259	(11/2-)	47 0.46 PS 8
61NI 48						3.275	(1/2-,3/2-)	48
61NI 49						3.286		49
61NI 50				3.295	7/2-			50

61NI 51						3.298	(1/2-,3/2-)	51
61NI 52		3.298	11/2+					52 0.60 PS +23-14
61NI 53						3.308	(7/2)-	53
61NI 54						3.346		54
61NI 55						3.382	1/2-,3/2-	55
61NI 56						3.406		56
61NI 57						3.415	(1/2-,3/2)	57
61NI 58				3.426	13/2-			58 0.7 PS GT
61NI 59						3.427	(1/2-,3/2-)	59
61NI 60		3.435	13/2+					60 1.0 PS 4

61NI 61						3.449	3/2+,5/2+	61
61NI 62						3.470		62
61NI 63		3.488	9/2+					63
61NI 64						3.506	3/2+,5/2+	64
61NI 65						3.526	(1/2,3/2)	65
61NI 66						3.548		66
61NI 67						3.565	(9/2+)	67
61NI 68						3.587		68
61NI 69						3.610		69
61NI 70						3.622	(11/2+)	70

61NI 71						3.629	5/2-,7/2-	71
61NI 72						3.645	(7/2+)	72
61NI 73						3.647	3/2+,5/2+	73
61NI 74				3.657	7/2-			74
61NI 75						3.664	(9/2+)	75
61NI 76						3.669	(1/2-,3/2)	76
61NI 77						3.686	1/2-,3/2-	77
61NI 78						3.711	(11/2+)	78
61NI 79						3.711	(1/2-,3/2)	79
61NI 80						3.728	1/2-,3/2-	80

61NI 81						3.738	(1/2+)	81
61NI 82				3.768	7/2-			82
61NI 83						3.777	(1/2-,3/2-)	83

61NI 84						3.819	(1/2-,3/2-)	84
61NI 85						3.837		85
61NI 86						3.861		86
61NI 87						3.870	(1/2,3/2)	87
61NI 88						3.919		88
61NI 89				3.938	7/2-			89
61NI 90						3.963		90

61NI 91						3.994		91
61NI 92		4.019	15/2+					92 1.4 PS GT
61NI 93				4.024	7/2-			93
61NI 94						4.032	(13/2+)	94
61NI 95						4.049	(1/2-,3/2-)	95
61NI 96						4.080		96
61NI 97						4.103		97
61NI 98						4.126	(1/2+)	98
61NI 99				4.143	7/2-			99
61NI 100						4.165	3/2+,5/2+	100

61NI 101						4.179	(3/2+)	101
61NI 102						4.197	(13/2-)	102
61NI 103						4.204	(3/2+)	103
61NI 104						4.207	(13/2+)	104
61NI 105						4.215		105
61NI 106						4.231		106
61NI 107						4.240	(3/2+)	107
61NI 108						4.259	5/2-,7/2-	108
61NI 109						4.267		109
61NI 110						4.288		110

61NI 111						4.306		111
61NI 112						4.314	(1/2+)	112
61NI 113						4.336	(1/2+)	113
61NI 114						4.354		114
61NI 115				4.376	7/2-			115
61NI 116						4.389		116
61NI 117						4.403		117
61NI 118						4.427		118
61NI 119						4.440	(1/2-,3/2)	119
61NI 120						4.455		120

61NI 121						4.476	(3/2+,5/2+)	121
61NI 122						4.477	(11/2+)	122
61NI 123				4.487	7/2-			123
61NI 124						4.502	(3/2+,5/2+)	124
61NI 125						4.515	(1/2-,3/2)	125
61NI 126						4.522	(13/2+)	126
61NI 127						4.522		127
61NI 128						4.544		128
61NI 129						4.568	(3/2+,5/2+)	129

61NI 130				4.578	3/2+,5/2+	130
61NI 131		4.586	7/2-			131
61NI 132				4.601		132
61NI 133				4.624		133
61NI 134				4.641		134
61NI 135		4.652	7/2-			135
61NI 136				4.667		136
61NI 137				4.685		137
61NI 138				4.689	(15/2+)	138
61NI 139				4.701		139
61NI 140				4.720		140
61NI 141		4.736	7/2-			141
61NI 142				4.741		142
61NI 143				4.756	3/2+,5/2+	143
61NI 144				4.764	(13/2+)	144
61NI 145		4.793	7/2-			145
61NI 146				4.819	(17/2+)	146 1.1 PS LT
61NI 147				4.833		147
61NI 148				4.854	(1/2-,3/2-)	148
61NI 149				4.861		149
61NI 150		4.872	7/2-			150
61NI 151				4.881		151
61NI 152				4.883	(1/2+)	152
61NI 153				4.907	(1/2+)	153
61NI 154				4.930		154
61NI 155		4.951	7/2-			155
61NI 156				4.968	(3/2+,5/2+)	156
61NI 157				4.989	(3/2+,5/2+)	157
61NI 158				5.000		158
61NI 159				5.008		159
61NI 160				5.024	(7/2-)	160
61NI 161				5.036	(1/2-,3/2-)	161
61NI 162	5.060	1/2+				162
61NI 163			5.079	7/2-		163
61NI 164				5.098	1/2-,3/2-	164
61NI 165				5.117	1/2-,3/2-	165
61NI 166				5.152		166
61NI 167				5.156	(15/2+)	167
61NI 168				5.165		168
61NI 169				5.166	(1/2+)	169
61NI 170	5.185	1/2+				170
61NI 171				5.208	3/2+,5/2+	171
61NI 172				5.220		172
61NI 173			5.244	7/2-		173
61NI 174				5.251	(17/2+)	174

61NI 175				5.267		175
61NI 176				5.280		176
61NI 177				5.295	(1/2-, 3/2-)	177
61NI 178	5.309	1/2+				178
61NI 179				5.311	(17/2+)	179
61NI 180				5.337		180

61NI 181				5.356	(1/2-, 3/2-)	181
61NI 182				5.370		182
61NI 183				5.391	(1/2, 3/2)	183
61NI 184				5.406		184
61NI 185				5.439	1/2-, 3/2-	185
61NI 186				5.460		186
61NI 187				5.487		187
61NI 188				5.508		188
61NI 189				5.528	3/2+, 5/2+	189
61NI 190				5.550		190

61NI 191				5.574	1/2-, 3/2-	191
61NI 192	5.588	1/2+				192
61NI 193				5.601		193
61NI 194				5.622	3/2+, 5/2+	194
61NI 195				5.645	(1/2-, 3/2-)	195
61NI 196				5.652	(3/2+)	196
61NI 197				5.659	1/2-, 3/2-	197
61NI 198	5.703	1/2+				198
61NI 199				5.723	(3/2+, 5/2+)	199
61NI 200				5.742	3/2+, 5/2+	200

61NI 201				5.761		201
61NI 202				5.796		202
61NI 203				5.804		203
61NI 204				5.821		204
61NI 205				5.842		205
61NI 206				5.859	(1/2+)	206
61NI 207				5.883		207
61NI 208				5.894	(3/2+, 5/2+)	208
61NI 209				5.914	(3/2+, 5/2+)	209
61NI 210				5.934	(3/2+, 5/2+)	210

61NI 211	5.955	3/2+				211
61NI 212	5.987	1/2+				212
61NI 213				6.016	(3/2+, 5/2+)	213
61NI 214				6.041		214
61NI 215				6.072		215
61NI 216				6.085	(3/2+, 5/2+)	216
61NI 217				6.102	(3/2+, 5/2+)	217
61NI 218				6.135	(3/2+, 5/2+)	218
61NI 219				6.148		219
61NI 220				6.166		220

61NI 221			6.176		221
61NI 222			6.184		222
61NI 223			6.191	(19/2+)	223
61NI 224			6.200		224
61NI 225			6.227		225
61NI 226			6.249	(3/2+,5/2+)	226
61NI 227			6.269		227
61NI 228			6.289	(1/2+)	228
61NI 229			6.314		229
61NI 230			6.346	3/2+,5/2+	230

61NI 231			6.371	3/2+,5/2+	231
61NI 232			6.391		232
61NI 233			6.413		233
61NI 234			6.427	(3/2+,5/2+)	234
61NI 235			6.444	(3/2+,5/2+)	235
S-alpha=	6.465	(0.000)	-----		
61NI 236			6.471		236
61NI 237			6.492		237
61NI 238			6.515	(1/2-,3/2-)	238
61NI 239			6.538	(1/2-,3/2-)	239
61NI 240			6.556		240

61NI 241			6.576	(3/2+)	241
61NI 242			6.589	(3/2+,5/2+)	242
61NI 243			6.609	3/2+,5/2+	243
61NI 244			6.616		244
61NI 245			6.630		245
61NI 246			6.661	(3/2+,5/2+)	246
61NI 247			6.676	(3/2+,5/2+)	247
61NI 248			6.706		248
61NI 249			6.732		249
61NI 250			6.735	(17/2+)	250

61NI 251			6.748		251
61NI 252			6.767		252
61NI 253			6.776		253
61NI 254			6.803		254
61NI 255			6.818		255
61NI 256			6.838		256
61NI 257			6.849		257
61NI 258			6.878		258
61NI 259			6.908		259
61NI 260			6.923		260

61NI 261			6.928		261
61NI 262			6.939		262
61NI 263			6.971		263
61NI 264			6.993		264

61NI 265						7.008		265
61NI 266						7.036		266
61NI 267						7.051		267
61NI 268						7.099		268
61NI 269						7.137		269
61NI 270						7.185		270

61NI 271						7.206		271
61NI 272						7.232		272
61NI 273						7.276		273
61NI 274						7.312		274
61NI 275						7.374		275
61NI 276						7.437		276
61NI 277						7.469		277
61NI 278						7.509		278
61NI 279						7.557		279
61NI 280						7.604		280

61NI 281						7.620		281
61NI 282						7.698		282
61NI 283						7.722		283
61NI 284						7.747		284
61NI 285						7.811		285
61NI 286		7.820		1/2+				286

S-n	=	7.820	(0.001)	-----			
61NI 287						7.821	(1/2-,3/2-)	287
61NI 288				7.823		3/2-		288
61NI 289				7.826		3/2-		289
61NI 290						7.826		290

61NI 291				7.832		1/2-		291
61NI 292		7.832		1/2+				292
61NI 293				7.833		1/2-		293
61NI 294				7.841		1/2-		294
61NI 295						7.844	(1/2)-	295
61NI 296						7.844	(3/2+)	296
61NI 297				7.848		1/2-		297
61NI 298				7.848		1/2-		298
61NI 299		7.848		1/2+				299
61NI 300				7.849		1/2-		300

61NI 301						7.850	(3/2)-	301
61NI 302						7.853	(1/2)-	302
61NI 303						7.853	(1/2)-	303
61NI 304						7.859	(3/2)-	304
61NI 305						7.862	(1/2)-	305
61NI 306				7.862		1/2-		306
61NI 307		7.863		1/2+				307
61NI 308						7.865		308
61NI 309				7.867		1/2-		309

61NI 310				7.867	(3/2)-	310
61NI 311			7.867	1/2-		311
61NI 312			7.869	1/2-		312
61NI 313			7.869	1/2-		313
61NI 314			7.870	1/2-		314
61NI 315				7.871	(3/2+)	315
61NI 316			7.872	1/2-		316
61NI 317				7.876	(3/2+,5/2+)	317
61NI 318			7.876	1/2-		318
61NI 319			7.884	1/2-		319
61NI 320			7.884	1/2-		320
61NI 321	7.884	1/2+				321
61NI 322				7.885	(3/2)-	322
61NI 323				7.890	(3/2+)	323
61NI 324				7.892	(3/2)-	324
61NI 325				7.897		325
61NI 326			7.897	1/2-		326
61NI 327				7.899	(3/2)-	327
61NI 328				7.901	(1/2)-	328
61NI 329				7.904	(3/2)-	329
61NI 330				7.905	(3/2)-	330
61NI 331	7.906	1/2+				331
61NI 332				7.907	(3/2)-	332
61NI 333			7.908	1/2-		333
61NI 334				7.910	(1/2)-	334
61NI 335				7.912	(3/2)-	335
61NI 336			7.914	1/2-		336
61NI 337				7.916	(3/2)-	337
61NI 338	7.917	1/2+				338
61NI 339				7.918	(3/2)-	339
61NI 340			7.921	1/2-		340
61NI 341	7.926	1/2+				341
61NI 342			7.927	3/2-		342
61NI 343				7.930	(3/2+)	343
61NI 344				7.930	(1/2)-	344
61NI 345				7.931	(1/2)-	345
61NI 346				7.932	(3/2)-	346
61NI 347			7.932	1/2-		347
61NI 348			7.939	1/2-		348
61NI 349				7.939	(3/2+)	349
61NI 350				7.939	(3/2)-	350
61NI 351				7.942	(3/2)-	351
61NI 352				7.942		352
61NI 353				7.945		353
61NI 354				7.946	(1/2)-	354

61NI 355				7.948	(3/2)-	355
61NI 356				7.952	(3/2)-	356
61NI 357				7.952		357
61NI 358			7.953	1/2-		358
61NI 359				7.954	(3/2)-	359
61NI 360				7.954	(3/2)-	360

61NI 361				7.955	1/2-, 3/2-	361
61NI 362				7.955	(1/2)-	362
61NI 363	7.957	1/2+				363
61NI 364				7.957	(3/2)-	364
61NI 365				7.958	1/2(-)	365
61NI 366				7.958		366
61NI 367			7.963	1/2-		367
61NI 368				7.964		368
61NI 369				7.965	1/2-, 3/2-	369
61NI 370				7.967	(3/2+)	370

61NI 371				7.969	(1/2)-	371
61NI 372				7.972	(1/2)-	372
61NI 373	7.974	1/2+				373
61NI 374				7.974	1/2-, 3/2-	374
61NI 375				7.978	(1/2)-	375
61NI 376				7.979		376
61NI 377	7.979	1/2+				377
61NI 378			7.980	1/2-		378
61NI 379				7.984	(3/2+)	379
61NI 380				7.985	(3/2+)	380

61NI 381			7.985	1/2-		381
61NI 382				7.988	(3/2+)	382
61NI 383			7.990	1/2-		383
61NI 384			7.990	1/2-		384
61NI 385				7.992	(1/2)-	385
61NI 386				7.992	(3/2)-	386
61NI 387			7.997	1/2-		387
61NI 388			8.000	3/2-		388
61NI 389				8.001	(1/2)-	389
61NI 390	8.003	1/2+				390

61NI 391				8.004	1/2-, 3/2-	391
61NI 392				8.009	1/2-, 3/2-	392
61NI 393			8.010	3/2-		393
61NI 394				8.011	(3/2)-	394
61NI 395				8.011		395
61NI 396				8.013		396
61NI 397				8.014		397
61NI 398	8.016	1/2+				398
61NI 399	8.018	1/2+				399
61NI 400	8.018	5/2+				400

61NI 401				8.019	(1/2)-	401
61NI 402				8.023	(1/2)-	402
61NI 403				8.023	(1/2)-	403
61NI 404				8.025	1/2-,3/2-	404
61NI 405				8.026		405
61NI 406				8.027		406
61NI 407				8.030		407
61NI 408				8.031	(3/2)-	408
61NI 409				8.031	(3/2)-	409
61NI 410				8.037	(1/2)-	410
61NI 411				8.037	(3/2)-	411
61NI 412				8.038	(3/2)	412
61NI 413				8.040		413
61NI 414			8.043	1/2-		414
61NI 415				8.046	(3/2)-	415
61NI 416	8.047	5/2+				416
61NI 417				8.050	(3/2)-	417
61NI 418				8.050	(3/2)-	418
61NI 419				8.052	1/2-,3/2-	419
61NI 420				8.053	(3/2)-	420
61NI 421			8.054	1/2-		421
61NI 422				8.055	(1/2)-	422
61NI 423				8.060	(3/2)-	423
61NI 424				8.063	1/2-,3/2-	424
61NI 425			8.065	3/2-		425
61NI 426	8.068	1/2+				426
61NI 427				8.069	(3/2)-	427
61NI 428			8.069	3/2-		428
61NI 429				8.070		429
61NI 430				8.071	(1/2)-	430
61NI 431	8.072	1/2+				431
61NI 432				8.072	(3/2)-	432
61NI 433				8.073	(1/2)-	433
61NI 434	8.074	1/2+				434
61NI 435				8.075	(3/2)-	435
61NI 436				8.076	1/2-,3/2-	436
61NI 437				8.077	(1/2)-	437
61NI 438				8.078	(1/2)-	438
61NI 439				8.079	(3/2)-	439
61NI 440				8.081	1/2-,3/2-	440
61NI 441			8.082	1/2-		441
61NI 442			8.084	1/2-		442
61NI 443				8.085	(3/2)-	443
61NI 444				8.085	(3/2)-	444
61NI 445			8.089	1/2-		445

61NI 446				8.090		446
61NI 447			8.093	1/2-		447
61NI 448				8.093	(3/2+)	448
61NI 449			8.094	3/2-		449
61NI 450	8.095	1/2+				450

61NI 451			8.096	3/2-		451
61NI 452				8.097	(1/2)-	452
61NI 453				8.098	(3/2)-	453
61NI 454			8.099	3/2-		454
61NI 455			8.101	1/2-		455
61NI 456				8.104	(1/2)-	456
61NI 457				8.106	(1/2)-	457
61NI 458	8.107	1/2+				458
61NI 459			8.108	3/2-		459
61NI 460				8.109		460

61NI 461				8.110	(1/2)-	461
61NI 462				8.110	(1/2)-	462
61NI 463			8.111	1/2-		463
61NI 464			8.113	1/2-		464
61NI 465			8.115	1/2-		465
61NI 466	8.116	3/2+				466
61NI 467	8.118	3/2+				467
61NI 468				8.122	(3/2)-	468
61NI 469			8.123	3/2-		469
61NI 470				8.123		470

61NI 471				8.124	(3/2)-	471
61NI 472				8.126		472
61NI 473				8.127	(1/2)-	473
61NI 474				8.128		474
61NI 475				8.129	(3/2+)	475
61NI 476	8.132	1/2+				476
61NI 477				8.132	(5/2+)	477
61NI 478				8.133		478
61NI 479			8.137	3/2-		479
61NI 480				8.138	(1/2)-	480

61NI 481			8.139	1/2-		481
61NI 482	8.140	1/2+				482
61NI 483			8.141	1/2-		483
61NI 484	8.142	3/2+				484
61NI 485				8.144	(1/2)-	485
61NI 486			8.144	1/2-		486
61NI 487			8.146	1/2-		487
61NI 488			8.149	3/2-		488
61NI 489				8.150	[1/2]-	489
61NI 490	8.151	3/2+				490

61NI 491		8.153		1/2+						491	
61NI 492						8.154		1/2-		492	
61NI 493						8.156		1/2-		493	
61NI 494						8.156		1/2-		494	
61NI 495						8.157		1/2-		495	
61NI 496								8.158		(3/2+)	496
61NI 497						8.160		1/2-		497	
61NI 498								8.163		(5/2+)	498
61NI 499								8.163		[1/2]-	499
61NI 500		8.164		3/2+						500	

61NI 501								8.164		501	
61NI 502		8.167		3/2+						502	
61NI 503		8.169		3/2+						503	
61NI 504		8.170		3/2+						504	
61NI 505		8.172		1/2+						505	
61NI 506						8.173		1/2-		506	
61NI 507						8.174		3/2-		507	
61NI 508						8.175		1/2-		508	
61NI 509						8.180		1/2-		509	
61NI 510								8.183		510	

61NI 511		8.183		3/2+						511	
61NI 512						8.184		1/2-		512	
61NI 513		8.185		3/2+						513	
61NI 514		8.186		3/2+						514	
61NI 515								8.187		(1/2)	515
61NI 516						8.188		1/2-		516	
61NI 517						8.189		1/2-		517	
61NI 518		8.191		1/2+						518	
61NI 519						8.191		1/2-		519	
61NI 520						8.192		1/2-		520	

61NI 521								8.193		(1/2)	521
61NI 522								8.194		(1/2-, 3/2-)	522
61NI 523						8.194		3/2-		523	
61NI 524						8.195		1/2-		524	
61NI 525								8.196		(1/2)	525
61NI 526								8.196		526	
61NI 527		8.197		1/2+						527	
61NI 528								8.200		(3/2)	528
61NI 529								8.200		(1/2)	529
61NI 530		8.202		3/2+						530	

61NI 531						8.202		1/2-		531	
61NI 532								8.207		3/2(-)	532
61NI 533						8.209		1/2-		533	
61NI 534						8.211		1/2-		534	
61NI 535		8.212		3/2+						535	
61NI 536						8.213		1/2-		536	

61NI 537				8.215	1/2-			537
61NI 538				8.216	1/2-			538
61NI 539				8.217	3/2-			539
61NI 540				8.217	1/2-			540

61NI 541							8.218	541
61NI 542							8.219	542
61NI 543				8.221	1/2-			543
61NI 544							8.222 (3/2)-	544
61NI 545		8.224	3/2+					545
61NI 546		8.227	1/2+					546
61NI 547		8.229	3/2+					547
61NI 548		8.229	3/2+					548
61NI 549							8.231	549
61NI 550							8.232	550

61NI 551				8.233	1/2-			551
61NI 552							8.236	552
61NI 553		8.236	1/2+					553
61NI 554							8.237	554
61NI 555		8.238	3/2+					555
61NI 556				8.240	1/2-			556
61NI 557				8.240	1/2-			557
61NI 558				8.243	1/2-			558
61NI 559		8.244	3/2+					559
61NI 560				8.244	1/2-			560

61NI 561		8.245	3/2+					561
61NI 562		8.249	3/2+					562
61NI 563				8.250	1/2-			563
61NI 564		8.251	1/2+					564
61NI 565		8.252	3/2+					565
61NI 566							8.252	566
61NI 567							8.253	567
61NI 568							8.254	568
61NI 569		8.254	3/2+					569
61NI 570							8.255	570

61NI 571		8.257	1/2+					571
61NI 572							8.258	572
61NI 573				8.260	1/2-			573
61NI 574		8.261	1/2+					574
61NI 575							8.262	575
61NI 576							8.262	576
61NI 577				8.264	3/2-			577
61NI 578				9.550	7/2-			578
61NI 579							0.000	579

S-p = 9.861 (0.001)-----

S-n = 7.820 (0.001)-----
S-2p = 18.135 (0.000)-----
S-2n = 19.208 (0.001)-----
S-alpha= 6.465 (0.000)-----

S+p = -5.854 (0.001)
S+n = -10.596 (0.001)
S+2p = -12.569 (0.002)
S+2n = -17.433 (0.001)
S+alpha = -4.115 (0.001)

gap p = 4.006 (0.001)
gap n = -2.776 (0.001)
gap 2p = 5.566 (0.002)
gap 2n = 1.774 (0.001)
gap alpha = 2.350 (0.001)