

$^{208}\text{Pb}$        $Z = 82$        $N = 126$       adopted link      ENSDF link

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

BE = 1636.430 ( 0.001) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-0.517	( 0.001)	-----		
208PB 1	0.000	0+			1 STABLE
208PB 2			2.615	3-	2 16.7 PS 3
208PB 3			3.198	5-	3 294 PS 15
208PB 4			3.475	4-	4 4 PS 3
208PB 5			3.708	5-	5
208PB 6			3.920	6-	6 690 FS GT
208PB 7			3.947	4-	7 430 FS GT
208PB 8			3.961	5-	8
208PB 9			3.995	4-	9 690 FS GT
208PB 10			4.037	7-	10 690 FS GT
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208PB 11			4.051	3-	11 326 FS +28-21
208PB 12	4.086	2+			12 0.80 FS 4
208PB 13			4.125	5-	13 490 FS GT
208PB 14				4.144 +	14
208PB 15			4.180	5-	15 319 FS 35
208PB 16			4.206	6-	16 690 FS GT
208PB 17			4.230	2-	17 333 FS 28
208PB 18			4.255	3-	18 97 FS 7
208PB 19			4.262	4-	19 520 FS GT
208PB 20			4.297	5-	20 201 FS +49-35
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208PB 21	4.324	4+			21 11.7 PS +15-18
208PB 22			4.359	4-	22 194 FS 21
208PB 23			4.383	6-	23 690 FS GT
208PB 24	4.424	6+			24 110 FS GT
208PB 25				4.447 -	25
208PB 26			4.481	6-	26 97 FS 7
208PB 27	4.611	8+			27 3.2 NS 5
208PB 28			4.680	7-	28 690 FS GT
208PB 29			4.698	3-	29 139 FS +42-28
208PB 30			4.709	5-	30 0.24 PS +20-9
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208PB 31			4.712	4-	31 340 FS GT
208PB 32			4.762	6-	32 0.26 PS +18-9
208PB 33				4.830 (8,9,10)	33
208PB 34			4.842	1-	34 0.068 FS +21-15
208PB 35	4.861	8+			35 22 FS GT
208PB 36	4.868	7+			36 97 FS GT
208PB 37	4.868	0+			37 312 FS GT

208PB 38						4.878				38
208PB 39		4.895		10+						39 0.50 US 5
208PB 40						4.910				40
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208PB 41						4.911		4		41 215 FS +63-42
208PB 42						4.919		8-		42
208PB 43		4.928		2+						43
208PB 44						4.937		3-		44 17.3 FS +35-28
208PB 45						4.953		3-		45 33.3 FS 14
208PB 46										46 440 FS GT
208PB 47						4.974		3-		47 166 FS 21
208PB 48										48
208PB 49										49
208PB 50		5.010		9+						50
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208PB 51						5.038		3-		51 90 FS 7
208PB 52										52
208PB 53		5.069		10+						53
208PB 54										54 69 FS +13-10
208PB 55										55
208PB 56						5.080		6-		56 111 FS +28-21
208PB 57						5.085		7-		57 229 FS GT
208PB 58						5.088		3-		58
208PB 59		5.093		8+						59 690 FS GT
208PB 60										60
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208PB 61										61 64 FS 3
208PB 62		5.162		9+						62
208PB 63		5.193		5+						63 319 FS GT
208PB 64										64 187 FS +42-35
208PB 65		5.195		7+						65 690 FS GT
208PB 66		5.213		6+						66 76 FS +21-14
208PB 67										67 14 FS 3
208PB 68		5.216		4+						68 32 FS 3
208PB 69										69
208PB 70										70
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208PB 71						5.239		4-		71
208PB 72		5.241		0+						72 690 FS GT
208PB 73						5.245		3-		73 17 FS +7-6
208PB 74										74
208PB 75		5.260		9+						75
208PB 76										76
208PB 77										77
208PB 78										78
208PB 79						5.276		4-		79 44 FS +6-5
208PB 80						5.280		0-		80 319 FS GT
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208PB 81										81 76 FS 7
208PB 82		5.291		11+						82

208PB 83				5.292	1-				83	0.049 FS	+28-18
208PB 84							5.308		84		
208PB 85							5.317	(3)+	85	690 FS	GT
208PB 86							5.317		86		
208PB 87							5.327	+	87		
208PB 88		5.339	8+						88	32 FS	+37-18
208PB 89				5.347	3-				89	28.4 FS	14
208PB 90							5.352	+	90		
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208PB 91							5.364		91		
208PB 92							5.374	(6)+	92		
208PB 93							5.381	-	93		
208PB 94							5.383	3+,4+,5+	94	37 FS	+7-6
208PB 95				5.385	3-				95	76 FS	14
208PB 96							5.401		96		
208PB 97							5.419	(6)+	97		
208PB 98							5.473	+	98		
208PB 99				5.482	5-				99	90 FS	14
208PB 100							5.490		100		
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208PB 101							5.490	(4-,6-)	101		
208PB 102							5.492	(4-,6-)	102	125 FS	+35-21
208PB 103							5.502		103		
208PB 104				5.512	1-				104	0.0194 FS	+12-18
208PB 105				5.517	3-				105	40.9 FS	21
208PB 106							5.524	+	106		
208PB 107							5.531		107		
208PB 108		5.537	10+						108		
208PB 109				5.543	7-				109		
208PB 110							5.545	(5-)	110	37 FS	+8-6
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208PB 111				5.548	2-				111	83 FS	7
208PB 112							5.554		112		
208PB 113							5.557		113		
208PB 114		5.561	2+						114	38 FS	4
208PB 115				5.564	3-				115	44 FS	+9-7
208PB 116							5.565	(4+)	116		
208PB 117							5.572		117		
208PB 118							5.577		118		
208PB 119							5.579		119		
208PB 120							5.588		120		
-----											
208PB 121				5.599	0-				121	159 FS	GT
208PB 122		5.615	7+						122		
208PB 123							5.627	+	123		
208PB 124				5.640	1-				124	0.13 PS	+12-5
208PB 125							5.642	1,2+	125	5.5 FS	LT
208PB 126				5.643	2 TO		7-		126		
208PB 127							5.649	3-,4-	127	37 FS	+13-10
208PB 128		5.649	6 TO		+				128		

208PB 129			5.659	5-			129	31 FS	+7-6
208PB 130					5.666		130		
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208PB 131					5.675	2-,3,4	131	13 FS	+6-5
208PB 132			5.687	6-			132		
208PB 133	5.690	4+					133	46 FS	4
208PB 134			5.694	7-			134	58 FS	+84-30
208PB 135	5.716	2+					135	3.7 FS	11
208PB 136			5.722	7-			136	28 FS	+9-7
208PB 137					5.727	+	137		
208PB 138					5.738		138		
208PB 139	5.741	6 TO					139		
208PB 140					5.750	(11+)	140		
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208PB 141	5.764	6+					141		
208PB 142					5.778	2-,3-	142	15.9 FS	14
208PB 143					5.783		143	41 FS	+22-14
208PB 144					5.789	2+,3+,4+	144	40 FS	+4-3
208PB 145					5.799		145	690 FS	GT
208PB 146					5.805	1	146	5.1 FS	+11-10
208PB 147			5.813	3-			147	22 FS	+4-3
208PB 148					5.819	1+,2+	148	222 FS	+42-35
208PB 149					5.825		149		
208PB 150					5.835		150		
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208PB 151			5.836	8-			151		
208PB 152	5.844	1+					152	0.31 FS	LE
208PB 153	5.860	11+					153		
208PB 154					5.867	+	154		
208PB 155			5.874	3-			155	13.2 FS	+21-14
208PB 156			5.886	3-			156	13.9 FS	14
208PB 157					5.901	(8)+	157		
208PB 158					5.918	3-,4,5-	158	173 FS	+56-42
208PB 159			5.924	2-			159	104 FS	+90-42
208PB 160	5.928	10+					160		
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208PB 161					5.944	+	161		
208PB 162			5.947	1-			162	0.48 FS	LE
208PB 163	5.954	9+					163		
208PB 164					5.957		164		
208PB 165					5.966		165		
208PB 166					5.968	AP 9	166		
208PB 167			5.969	4-			167	7.6 FS	+42-35
208PB 168	5.973	2+					168		
208PB 169					5.981		169		
208PB 170					5.989		170		
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208PB 171	5.993	6+					171		
208PB 172					5.996	-	172		
208PB 173			6.010	3-			173	11 FS	+5-4

208PB 174				6.012		174	57 FS	+13-11
208PB 175				6.020		175		
208PB 176				6.026		176		
208PB 177				6.033		177		
208PB 178				6.037	(5+,6+)	178		
208PB 179	6.054	4+				179		
208PB 180				6.068	(5+,6+)	180		
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208PB 181				6.071	-	181		
208PB 182				6.076	0-,1-	182		
208PB 183			6.087	1-		183	37 FS	+25-15
208PB 184				6.100		184		
208PB 185	6.101	12+				185		
208PB 186				6.101	(5+)	186	690 FS	GT
208PB 187				6.103		187		
208PB 188				6.148		188		
208PB 189	6.179	2+				189		
208PB 190			6.191	3-		190		
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208PB 191	6.193	2+				191	0.62 FS	5
208PB 192				6.217		192		
208PB 193				6.224		193		
208PB 194				6.235		194		
208PB 195				6.242		195		
208PB 196				6.251		196		
208PB 197	6.256	2+				197	0.91 FS	LE
208PB 198			6.264	1-		198	0.21 FS	LE
208PB 199			6.275	3-		199	12 FS	+16-10
208PB 200			6.283	10-		200		
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208PB 201			6.314	1-		201	0.17 FS	LE
208PB 202				6.318		202		
208PB 203				6.327		203		
208PB 204				6.333		204		
208PB 205				6.340	1-,2,3-	205		
208PB 206				6.348		206		
208PB 207				6.354		207		
208PB 208			6.362	1-		208	0.30 FS	LE
208PB 209				6.372	2+,3-	209		
208PB 210				6.379		210		
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208PB 211				6.390	-	211		
208PB 212				6.397		212		
208PB 213				6.420	(5+,6+)	213		
208PB 214				6.428		214		
208PB 215			6.428	2-		215		
208PB 216			6.436	12-		216		
208PB 217			6.444	3-		217		
208PB 218				6.448	(13-)	218		
208PB 219				6.452		219		

208PB 220				6.463	-	220
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208PB 221				6.473		221
208PB 222		6.482	2-			222
208PB 223		6.486	1-			223 0.78 FS +37-23
208PB 224				6.506	1	224 1.0 FS LE
208PB 225				6.513	1	225 4.2 FS LE
208PB 226				6.529	-	226
208PB 227				6.532		227
208PB 228				6.542		228
208PB 229				6.545		229
208PB 230				6.552	1-,2,3-	230
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208PB 231				6.561		231
208PB 232				6.573		232
208PB 233				6.579		233
208PB 234		6.588	2-			234
208PB 235				6.589		235
208PB 236				6.609		236
208PB 237		6.617	3-			237
208PB 238				6.631		238
208PB 239				6.655		239
208PB 240	6.658	4+				240
-----						
208PB 241				6.682	(5-)	241
208PB 242		6.688	5-			242
208PB 243				6.700	(3-)	243
208PB 244				6.709		244
208PB 245		6.720	1-			245 0.052 FS +6-12
208PB 246				6.728		246
208PB 247				6.734		247
208PB 248				6.740		248
208PB 249		6.743	14-			249
208PB 250				6.756		250
-----						
208PB 251				6.767		251
208PB 252				6.773	1,2,3-	252
208PB 253				6.789	(2-,3+)	253
208PB 254				6.794		254
208PB 255				6.801		255
208PB 256				6.820	(2-,3-)	256
208PB 257				6.826		257
208PB 258				6.832	(8-)	258
208PB 259				6.846	(8+)	259
208PB 260		6.861	9-			260
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208PB 261		6.868	10-			261
208PB 262				6.878		262
208PB 263		6.879	7-			263
208PB 264		6.884	10-			264

208PB 265						6.897				265
208PB 266		6.913		2+						266 0.85 FS LE
208PB 267										267
208PB 268						6.918				268
208PB 269						6.921				269
208PB 270						6.930		2-		270
208PB 271						6.940		3-		270
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208PB 271						6.947				271
208PB 272						6.969		2-		272
208PB 273										273 1.8 FS AP
208PB 274						6.980		1,2+		274
208PB 275						6.989				275
208PB 276						6.995				276
208PB 277						7.000		(9+)		277
208PB 278						7.001				278
208PB 279						7.020		1-		279
208PB 280						7.020		(3-)		280
208PB 281						7.034				280
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208PB 281						7.058				281
208PB 282						7.061		12-		282
208PB 283						7.064		1-		283 0.025 FS +1-3
208PB 284						7.083		1-		284 0.050 FS 4
208PB 285						7.086		12-		285
208PB 286										286
208PB 287						7.096				287
208PB 288						7.108		(1-,3-)		288
208PB 289						7.117		(3-)		289
208PB 290						7.137		3-,4-		290
208PB 291						7.143		(3+,2-)		290
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208PB 291						7.146		(5-,6-)		291
208PB 292						7.157				292
208PB 293						7.167				293
208PB 294						7.177		1		294 0.57 FS LE
208PB 295						7.192				295
208PB 296						7.197				296
208PB 297						7.207		1		297 0.51 FS LE
208PB 298						7.219				298
208PB 299						7.232				299
208PB 300						7.240		1-		300 0.24 FS LE
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208PB 301						7.255				301
208PB 302						7.264				302
208PB 303		7.266		2+						303
208PB 304		7.279		1+						304 0.585 FS 15
208PB 305						7.280				305
208PB 306						7.291				306
208PB 307						7.301				307
208PB 308						7.311				308
208PB 309						7.313		(2-,3+)		309
208PB 310		7.315		2+						310

208PB 311			7.332	1-			311	0.016 FS	+2-4
208PB 312			7.335	3-			312		
208PB 313					7.335	(5-,6-)	313		
208PB 314					7.346		314		
208PB 315	7.360	2+					315		
208PB 316					7.360	(5-,6-)	316		
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S-n	=	7.368	(	0.002)					
208PB 317	7.371	2+					317		
208PB 318					7.372		318		
208PB 319	7.378	2+					319		
208PB 320					7.380		320		
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208PB 321					7.382	(4+)	321		
208PB 322	7.384	2+					322		
208PB 323	7.385	1+					323		
208PB 324			7.389	3-			324		
208PB 325					7.397	(2)+	325		
208PB 326					7.398	1	326		
208PB 327	7.399	4+					327		
208PB 328	7.401	2+					328		
208PB 329	7.405	1+					329		
208PB 330					7.409		330		
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208PB 331			7.409	1-			331		
208PB 332			7.415	1-			332	0.17 FS	LE
208PB 333	7.416	2+					333		
208PB 334					7.421		334		
208PB 335					7.429		335		
208PB 336	7.430	2+					336		
208PB 337					7.435		337		
208PB 338	7.436	2+					338		
208PB 339	7.441	1+					339		
208PB 340					7.449	(5-,6-)	340		
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208PB 341	7.450	0+					341		
208PB 342	7.450	2+					342		
208PB 343	7.455	2+					343		
208PB 344			7.459	2-			344		
208PB 345	7.466	1+					345		
208PB 346	7.466	2+					346		
208PB 347			7.469	1-			347		
208PB 348			7.469	1-			348		
208PB 349	7.471	0+					349		
208PB 350					7.479	(2+)	350		
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208PB 351					7.482	(1-,3-)	351		
208PB 352	7.482	1+					352		
208PB 353	7.491	2+					353		
208PB 354	7.495	2+					354		



208PB 355	7.495	1+					355
208PB 356	7.497	1+					356
208PB 357					7.499	1(+)	357
208PB 358	7.502	0+					358
208PB 359					7.504	(2+)	359
208PB 360			7.505	1-			360
-----							
208PB 361	7.507	2+					361
208PB 362					7.508	(2+)	362
208PB 363			7.509	2-			363
208PB 364	7.513	1+					364
208PB 365					7.515	(1+)	365
208PB 366					7.516	(1+)	366
208PB 367			7.517	3-			367
208PB 368					7.517	0-,1-	368
208PB 369	7.521	2+					369
208PB 370	7.523	1+					370
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208PB 371					7.524	(0+,1+)	371
208PB 372	7.526	2+					372
208PB 373					7.529		373
208PB 374	7.536	1+					374
208PB 375					7.538	(2+)	375
208PB 376	7.538	2+					376
208PB 377	7.546	1+					377
208PB 378	7.546	0+					378
208PB 379	7.548	1+					379
208PB 380	7.548	2+					380
-----							
208PB 381			7.548	1-			381
208PB 382			7.549	1-			382 0.35 FS LE
208PB 383					7.549	(0+)	383
208PB 384					7.553	(0+)	384
208PB 385					7.564	(2+)	385
208PB 386					7.566	(0+)	386
208PB 387					7.568	(+)	387
208PB 388					7.568		388
208PB 389					7.573		389
208PB 390	7.574	0+					390
-----							
208PB 391			7.576	2-			391
208PB 392	7.577	1+					392
208PB 393					7.579	(2)-	393
208PB 394					7.581		394
208PB 395	7.585	1+					395
208PB 396					7.587	(1)	396
208PB 397	7.587	2+					397
208PB 398					7.591	(2)+	398
208PB 399					7.594		399
208PB 400			7.595	0-			400

(1)

208PB 401	7.597	1+				401
208PB 402					7.598	402
208PB 403					7.600 (1+)	403
208PB 404	7.607	2+				404
208PB 405					7.610 (1+)	405
208PB 406					7.611 (2+)	406
208PB 407	7.616	2+				407
208PB 408	7.617	1+				408
208PB 409			7.621	3-		409
208PB 410			7.623	1-		410
208PB 411					7.627	411
208PB 412					7.629 (1+)	412
208PB 413			7.631	1-		413 0.57 FS LE
208PB 414	7.632	1+				414
208PB 415					7.636 (2+)	415
208PB 416	7.636	2+				416
208PB 417					7.640 (2+)	417
208PB 418					7.643 (0+)	418
208PB 419					7.644	419
208PB 420					7.650	420
208PB 421	7.651	1+				421
208PB 422					7.652 (2+)	422
208PB 423					7.654 (1+)	423
208PB 424					7.655 (2+)	424
208PB 425					7.656 (10+)	425
208PB 426	7.657	0+				426
208PB 427					7.663 1(+)	427
208PB 428	7.664	1+				428
208PB 429					7.666 (1+)	429
208PB 430					7.668 (0+)	430
208PB 431					7.671	431
208PB 432					7.673 (1+)	432
208PB 433					7.676 (2)-	433
208PB 434					7.677 (1-)	434
208PB 435					7.680	435
208PB 436	7.680	1+				436
208PB 437			7.683	1-		437
208PB 438					7.684 (0+)	438
208PB 439					7.685 1,2+	439
208PB 440			7.686	2-		440
208PB 441	7.690	2+				441
208PB 442			7.696	3-		442
208PB 443			7.696	1-		443
208PB 444					7.699 (2+)	444
208PB 445					7.700	445



208PB 491	7.818	2+					491
208PB 492					7.818		492
208PB 493					7.823		493
208PB 494					7.825	(10-)	494
208PB 495			7.828	3-			495
208PB 496			7.830	1-			496
208PB 497					7.830		497
208PB 498					7.831		498
208PB 499					7.832	(1)+	499
208PB 500					7.832		500
-----							
208PB 501					7.837	(2)-	501
208PB 502			7.838	3-			502
208PB 503					7.840		503
208PB 504					7.841		504
208PB 505					7.845		505
208PB 506	7.845	2+					506
208PB 507					7.847		507
208PB 508					7.852		508
208PB 509					7.858		509
208PB 510					7.869		510
-----							
208PB 511					7.872	(1-,2)	511
208PB 512	7.902	2+					512
208PB 513	7.904	2+					513
208PB 514			7.907	1-			514
208PB 515					7.913	1(-)	515 0.48 FS LE
208PB 516	7.914	2+					516
208PB 517					7.918		517
208PB 518			7.924	2-			518
208PB 519					7.961	(1-,3-)	519
208PB 520					7.965		520
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208PB 521			7.968	3-			521
208PB 522	7.969	0+					522
208PB 523					7.970	(2)+	523
208PB 524			7.971	1-			524
208PB 525					7.974	(15-)	525
208PB 526	7.974	1+					526
208PB 527			7.978	2-			527
208PB 528					7.979	(0+,1+,2+)	528
208PB 529			7.981	1-			529
208PB 530					7.982	(1,2)+	530
-----							
208PB 531					7.983	(1,2)+	531
208PB 532			7.987	2-			532
208PB 533					8.001		533
-----							
S-p =	8.003 ( 0.006)						
208PB 534			8.008	2-			534
208PB 535	8.008	2+					535

208PB 536			8.018	1-			536
208PB 537					8.027	(14-)	537
208PB 538	8.051	2+					538
208PB 539					8.065		539
208PB 540	8.072	2+					540
-----							
208PB 541					8.092		541
208PB 542			8.102	1-			542
208PB 543	8.109	2+					543
208PB 544	8.110	4+					544
208PB 545	8.144	2+					545
208PB 546			8.166	3-			546
208PB 547	8.167	2+					547
208PB 548					8.185		548
208PB 549					8.202		549
208PB 550					8.206		550
-----							
208PB 551			8.212	1-			551
208PB 552					8.220	1	552
208PB 553					8.220	(1-)	553
208PB 554					8.252		554
208PB 555					8.264		555
208PB 556					8.264		556
208PB 557			8.274	1-			557
208PB 558					8.293		558
208PB 559					8.310		559
208PB 560			8.319	1-			560
-----							
208PB 561					8.338		561
208PB 562					8.343		562
208PB 563			8.350	3-			563
208PB 564					8.351	(15-)	564
208PB 565					8.358		565
208PB 566			8.365	1-			566
208PB 567	8.369	12+					567
208PB 568					8.400		568
208PB 569			8.470	3-			569
208PB 570					8.493		570
-----							
208PB 571					8.520		571
208PB 572					8.563	(16-)	572
208PB 573	8.620	2+					573
208PB 574					8.724		574
208PB 575	8.750	2+					575
208PB 576					8.813	(14-,15,16-)	576
208PB 577	8.860	2+					577
208PB 578	8.950	2+					578
208PB 579					9.061	(17+)	579
208PB 580					9.103		580
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208PB 581				9.180	3-			581
208PB 582		9.340	2+					582
208PB 583					9.380	3-		583
208PB 584								584
208PB 585		9.520	2+					585

S-p = 8.003 ( 0.006)-----  
S-n = 7.368 ( 0.002)-----  
S-2p = 15.381 ( 0.020)-----  
S-2n = 14.106 ( 0.002)-----  
S-alpha= -0.517 ( 0.001)-----

S+p = -3.799 ( 0.002)  
S+n = -3.937 ( 0.002)  
S+2p = -8.782 ( 0.002)  
S+2n = -9.123 ( 0.002)  
S+alpha = 8.954 ( 0.002)

gap p = 4.204 ( 0.006)  
gap n = 3.431 ( 0.003)  
gap 2p = 6.598 ( 0.021)  
gap 2n = 4.983 ( 0.002)  
gap alpha = 8.438 ( 0.002)