

^{208}Pb $Z = 82$ $N = 126$ [link to full NNDC output](#)

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

BE = 1636.430 (0.001) MeV

	Energy T	J+	J-	J-other	T1/2

S-alpha=	-0.516	(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

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

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

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		

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									4.962	4(-),5(+)	46	440 FS GT
208PB 47						4.974		3-		47	166 FS	21
208PB 48									4.992	(2)-	48	
208PB 49									4.995	GE 7	49	
208PB 50		5.010		9+						50		

208PB 51						5.038		3-		51	90 FS	7
208PB 52									5.056	52		
208PB 53		5.069		10+						53		
208PB 54									5.075	54	69 FS	+13-10
208PB 55									5.076	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									5.103	60		

208PB 61									5.127	2-,3-	61	64 FS 3
208PB 62		5.162		9+						62		
208PB 63		5.193		5+						63	319 FS	GT
208PB 64									5.195	3-,4-	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									5.214	(5-)	67	14 FS 3
208PB 68		5.216		4+						68	32 FS	3
208PB 69									5.234	+	69	
208PB 70									5.235	(11+)	70	

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									5.254	74		
208PB 75		5.260		9+						75		
208PB 76									5.261	76		
208PB 77									5.267	77		
208PB 78									5.270	(11+)	78	
208PB 79						5.276		4-		79	44 FS	+6-5
208PB 80						5.280		0-		80	319 FS	GT

208PB 81									5.286	2,3-	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		

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		

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

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		

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		

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		

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		

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		

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		

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		

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		

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		

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

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

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

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

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

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

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

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		

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		

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		

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		

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		

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

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

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

208PB 581				9.180	3-			581
208PB 582		9.340	2+					582
208PB 583					9.380	3-		583
208PB 584							9.394	584
208PB 585		9.520	2+					585
208PB 586							10.070	(1,2) 586
208PB 587							10.137	587
208PB 588							10.196	588
208PB 589							10.342	589
208PB 590							10.357	590

208PB 591							10.372	591
208PB 592							10.552	592
208PB 593							10.600	(1,2) 593
208PB 594		10.900	2+					594
208PB 595							11.270	(1,2) 595
208PB 596							11.361	596
208PB 597							11.450	(1,2) 597
208PB 598							11.600	598
208PB 599							11.958	599
208PB 600		12.250	4+					600

208PB 601							12.950	601
208PB 602					13.500	1-		602
208PB 603							13.675	603
208PB 604		13.960	0+					604

S-2p	=	15.381	(0.020)	-----				
S-2n	=	14.106	(0.002)	-----				
208PB 605		16.000	6+					605
208PB 606					19.600	3-		606

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	=	-0.516	(0.001)	-----				

S+p	=	-3.799	(0.002)					
S+n	=	-3.937	(0.002)					
S+2p	=	-8.782	(0.002)					
S+2n	=	-9.122	(0.002)					
S+alpha	=	8.954	(0.002)					

gap p	=	4.204	(0.006)					
gap n	=	3.431	(0.003)					
gap 2p	=	6.599	(0.020)					
gap 2n	=	4.984	(0.003)					
gap alpha	=	8.438	(0.002)					