

^{43}Sc $Z = 21$ $N = 22$ [link to full NNDC output](#)

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

BE = 366.825 (0.002) MeV

Qbeta+ = 2.221 (0.002) MeV

	Energy T	J+	J-	J-other	T1/2
43SC 1			0.000	7/2-	1 3.891 H 12
43SC 2	0.152	3/2+			2 438 US 7
43SC 3			0.473	3/2-	3 158 PS 13
43SC 4			0.845	5/2-	4 0.15 PS 1
43SC 5	0.856	1/2+			5 22 PS 3
43SC 6	0.881	5/2+			6 4.6 PS 10
43SC 7	1.159	3/2+			7 4.4 PS 10
43SC 8			1.179	3/2-	8 0.28 PS 11
43SC 9	1.338	7/2+			9 0.83 PS 35
43SC 10			1.408	7/2-	10 0.19 PS 6
43SC 11	1.651	5/2+			11 0.18 PS 3
43SC 12			1.811	3/2-	12 16 FS 6
43SC 13			1.830	11/2-	13 0.20 PS 3
43SC 14				1.883 (5/2,9/2)-	14 35 FS 17
43SC 15				1.912	15
43SC 16	1.933	9/2+			16 2.4 PS 6
43SC 17				1.963 (3/2,5/2)-	17 70 FS 11
43SC 18			2.095	3/2-	18 0.29 PS +8-6
43SC 19				2.107 (3/2,5/2)	19 0.21 PS 7
43SC 20				2.115	20
43SC 21				2.142 (3/2-,5/2+)	21 0.19 PS 4
43SC 22				2.243 (3/2,5/2,7/2)-	22 0.19 PS 9
43SC 23			2.289	5/2-	23 21 FS LT
43SC 24			2.335	5/2-	24 28 FS 14
43SC 25				2.383 3/2(+)	25 0.31 PS GT
43SC 26				2.459 (5/2,9/2)-	26 38 FS 14
43SC 27	2.554	11/2+			27 0.51 PS 7
43SC 28				2.581 (5/2)	28 0.10 PS 3
43SC 29				2.606	29
43SC 30				2.635 (11/2)-	30 0.21 PS 7
43SC 31				2.651	31
43SC 32	2.657	1/2+			32
43SC 33			2.671	3/2-	33
43SC 34				2.760 (5/2,7/2,9/2)-	34 28 FS LT
43SC 35				2.795 3/2-,5/2-	35 0.28 PS 16
43SC 36				2.811 (5/2,7/2,9/2)	36 62 FS LT
43SC 37				2.841 (5/2,7/2)+	37

43SC 38						2.846			38
43SC 39						2.861	(1/2,3/2,5/2)+		39
43SC 40						2.875	(5/2)+		40

43SC 41						2.930	3/2+,5/2+		41
43SC 42						2.985	(3/2,5/2)	42	54 FS 11
43SC 43				2.988		15/2-		43	5.6 PS 7
43SC 44				3.124		19/2-		44	472 NS 4
43SC 45		3.142		13/2+				45	0.55 PS GT
43SC 46						3.159	(3/2-,5/2,7/2+)	46	0.42 PS LT
43SC 47						3.198	(1/2:7/2-)	47	0.28 PS LT
43SC 48						3.260	(7/2,9/2)-	48	42 FS 25
43SC 49				3.292		7/2-		49	
43SC 50						3.327	(3/2-:9/2)	50	

43SC 51						3.332	(3/2-,5/2)	51	0.13 PS 10
43SC 52						3.375	(7/2,9/2)-	52	62 FS LT
43SC 53		3.452		5/2+				53	2.1 FS LT
43SC 54				3.463		5/2-		54	
43SC 55						3.480	(LE 13/2)+	55	
43SC 56				3.503		7/2-		56	
43SC 57						3.613		57	
43SC 58						3.632	(5/2-,7/2-,9/2-)	58	
43SC 59						3.646	(3/2,5/2,7/2-)	59	
43SC 60						3.683	(3/2,5/2,7/2)	60	

43SC 61						3.700	(5/2 TO 19/2)-	61	
43SC 62						3.734		62	
43SC 63		3.755		15/2+				63	
43SC 64						3.757	(3/2-,5/2,7/2+)	64	
43SC 65						3.771	(3/2:17/2)+	65	
43SC 66				3.807		7/2-		66	3.5 FS LT
43SC 67						3.843	(LE 9/2)	67	
43SC 68						3.860	(LE 7/2)	68	
43SC 69						3.894		69	
43SC 70						3.939	5/2-,7/2-	70	

43SC 71						3.949	(LE 13/2)+	71	
43SC 72				3.960		15/2-		72	
43SC 73						3.985		73	
43SC 74						4.007	(3/2,5/2)+	74	
43SC 75				4.039		7/2-		75	
43SC 76						4.132	(3/2 TO 17/2)+	76	
43SC 77						4.159	(9/2,11/2,13/2)	77-	
43SC 78						4.211	(9/2,13/2)+	78	
43SC 79				4.236		3/2 7/2-		79	
43SC 80						4.276		80	

43SC 81						4.301	(9/2,11/2,13/2+	81)	
43SC 82						4.343		82	

43SC 83				4.360	(17/2-)	83		
43SC 84				4.372	5/2-,7/2-	84		
43SC 85				4.383	5/2-,7/2-	85		
43SC 86				4.383	17/2(-)	86	40 FS	17
43SC 87				4.430	(1/2+,3/2,5/2)	87		
43SC 88				4.455	(5/2:9/2)	88	3.5 FS	LT
43SC 89				4.511		89		
43SC 90				4.555	(11/2+,13/2-)	90		

43SC 91				4.583		91		
43SC 92				4.634	(17/2,21/2)	92	110 FS	LT
43SC 93				4.660	1/2-,3/2-	93		
43SC 94				4.700	(15/2+)	94		
43SC 95				4.719	1/2-,3/2-	95		
43SC 96				4.766	1/2-,3/2-	96		
S-alpha=	4.806	(0.000)	-----				
43SC 97				4.817	1/2-,3/2-	97		
43SC 98				4.873		98		
43SC 99				4.893	1/2-,3/2-	99		
43SC 100				4.927		100		

S-p	=	4.930	(0.002)	-----			
43SC 101				5.018	1/2-,3/2-	101		
43SC 102				5.187		102		
43SC 103				5.200	(17/2+)	103		
43SC 104				5.231	(17/2+)	104		
43SC 105				5.236		105		
43SC 106				5.258	1/2-,3/2-	106		
43SC 107				5.317		107		
43SC 108				5.446		108		
43SC 109				5.502	1/2-,3/2-	109		
43SC 110		5.519	19/2+			110	62 FS	LT

43SC 111				5.530	1/2-,3/2-	111		
43SC 112				5.641	1/2-,3/2-	112		
43SC 113				5.719	1/2-,3/2-	113		
43SC 114				5.794	(15/2,17/2,19/2	114-)		
43SC 115				5.823		115		
43SC 116				5.871		116		
43SC 117				5.919	3/2	117		
43SC 118				5.951	(3/2,5/2)	118		
43SC 119				5.977		119		
43SC 120				6.033	1/2-,3/2-	120		

43SC 121				6.061	(5/2)	121		
43SC 122		6.067	19/2-			122	55 FS	12
43SC 123				6.079		123		
43SC 124				6.103	(3/2-,5/2+)	124		
43SC 125				6.116		125		
43SC 126				6.127		126		

43SC 127						6.136	3/2		127
43SC 128				6.143	3/2-				128
43SC 129						6.146	3/2 1/2-,3/2-		129
43SC 130				6.151	3/2-				130

43SC 131						6.173	(19/2+)		131
43SC 132						6.174			132
43SC 133						6.182			133
43SC 134						6.184	5/2		134
43SC 135						6.190			135
43SC 136						6.198	(3/2,5/2+)		136
43SC 137						6.200			137
43SC 138						6.210			138
43SC 139						6.211			139
43SC 140						6.217	(3/2-,5/2+)		140

43SC 141		6.223	3/2 1/2+						141
43SC 142						6.228			142
43SC 143						6.242			143
43SC 144						6.247	(3/2,5/2)		144
43SC 145						6.253			145
43SC 146						6.262			146
43SC 147						6.280			147
43SC 148						6.283	(21/2+)		148 110 FS 38
43SC 149						6.286			149
43SC 150						6.291			150

43SC 151						6.297			151
43SC 152						6.312			152
43SC 153						6.315			153
43SC 154		6.320	5/2+						154
43SC 155						6.348			155
43SC 156						6.355			156
43SC 157						6.370			157
43SC 158						6.374			158
43SC 159						6.384			159
43SC 160						6.391			160

43SC 161						6.395			161
43SC 162						6.403			162
43SC 163						6.410			163
43SC 164						6.416			164
43SC 165						6.418			165
43SC 166						6.426			166
43SC 167		6.431	23/2+						167 16.3 PS 15
43SC 168						6.432			168
43SC 169		6.439	1/2+						169
43SC 170						6.453			170

43SC 171						6.461			171

43SC 172				6.469		172
43SC 173				6.479		173
43SC 174				6.481		174
43SC 175				6.493		175
43SC 176				6.499		176
43SC 177				6.503		177
43SC 178				6.508		178
43SC 179		6.511	1/2+			179
43SC 180				6.515		180

43SC 181				6.535		181
43SC 182				6.547		182
43SC 183				6.551		183
43SC 184				6.558		184
43SC 185			6.561	1/2-		185
43SC 186		6.564	1/2+			186
43SC 187		6.570	1/2+			187
43SC 188				6.576		188
43SC 189				6.584		189
43SC 190				6.596		190

43SC 191				6.604		191
43SC 192				6.625		192
43SC 193			6.630	1/2-		193
43SC 194		6.651	1/2+			194
43SC 195				6.665		195
43SC 196				6.674		196
43SC 197				6.677	(1/2-)	197
43SC 198				6.680		198
43SC 199		6.684	1/2 1/2+			199
43SC 200			6.685	1/2 1/2-		200

43SC 201			6.685	3/2-		201
43SC 202			6.695	1/2-		202
43SC 203				6.696	5/2	203
43SC 204			6.709	1/2 1/2-		204
43SC 205			6.709	1/2-		205
43SC 206				6.713		206
43SC 207				6.716		207
43SC 208				6.719		208
43SC 209				6.730		209
43SC 210			6.737	3/2-		210

43SC 211				6.749		211
43SC 212				6.759		212
43SC 213				6.777	5/2	213
43SC 214				6.786		214
43SC 215				6.794		215
43SC 216			6.795	1/2-		216
43SC 217			6.795	1/2-		217

43SC 218						6.801				218
43SC 219						6.811				219
43SC 220						6.814				220

43SC 221						6.814	(15/2-:23/2-)			221 94 FS 20
43SC 222		6.815		1/2+						222
43SC 223						6.818	(21/2+)			223
43SC 224				6.827		3/2-				224
43SC 225						6.830				225
43SC 226						6.834				226
43SC 227						6.846				227
43SC 228						6.850	(3/2+)			228
43SC 229				6.851		1/2-				229
43SC 230						6.854	(3/2+)			230

43SC 231				6.855		1/2-				231
43SC 232						6.859	(3/2+)			232
43SC 233						6.861				233
43SC 234		6.868		1/2+						234
43SC 235						6.871				235
43SC 236						6.877				236
43SC 237		6.880		1/2+						237
43SC 238						6.889				238
43SC 239				6.900		1/2-				239
43SC 240						6.906				240

43SC 241		6.912		1/2+						241
43SC 242						6.919	7/2			242
43SC 243						6.920				243
43SC 244						6.925				244
43SC 245						6.934				245
43SC 246		6.936		1/2+						246
43SC 247						6.942				247
43SC 248				6.944		1/2-				248
43SC 249						6.946				249
43SC 250						6.961				250

43SC 251						6.966	(3/2+)			251
43SC 252						6.971				252
43SC 253						6.979	(3/2+)			253
43SC 254				6.984		1/2-				254
43SC 255						6.991				255
43SC 256						6.996				256
43SC 257						6.999				257
43SC 258						7.004				258
43SC 259						7.014	(3/2-)			259
43SC 260						7.022				260

43SC 261						7.025	(3/2+)			261
43SC 262				7.028		1/2-				262

43SC 263	7.032	1/2+				263	
43SC 264					7.033	264	
43SC 265			7.037	3/2-		265	
43SC 266					7.042	266	
43SC 267					7.046	(5/2+)	267
43SC 268					7.051		268
43SC 269					7.058		269
43SC 270					7.063		270

43SC 271	7.068	1/2+				271	
43SC 272					7.072	272	
43SC 273			7.075	1/2-		273	
43SC 274					7.080	274	
43SC 275			7.086	1/2-		275	
43SC 276					7.091	276	
43SC 277			7.094	3/2-		277	
43SC 278	7.099	1/2+				278	
43SC 279					7.107	(23/2+)	279
43SC 280					7.108		280

43SC 281			7.117	1/2-		281	
43SC 282					7.119	(15/2,17/2,19/2)	282+
43SC 283					7.123	(3/2+)	283
43SC 284	7.125	1/2+					284
43SC 285					7.127		285
43SC 286					7.132	(3/2+)	286
43SC 287					7.135		287
43SC 288			7.138	3/2-			288
43SC 289	7.140	1/2+					289
43SC 290					7.146		290

43SC 291					7.150	(3/2+)	291
43SC 292					7.154		292
43SC 293			7.156	3/2-			293
43SC 294					7.159	3/2+,5/2+	294
43SC 295			7.170	1/2-			295
43SC 296					7.174		296
43SC 297					7.176	(5/2-)	297
43SC 298					7.180		298
43SC 299					7.183		299
43SC 300					7.185	(3/2+)	300

43SC 301					7.198		301
43SC 302					7.211	(1/2-)	302
43SC 303					7.214		303
43SC 304					7.215	(1/2+)	304
43SC 305	7.223	3/2+					305
43SC 306					7.227	(3/2+)	306
43SC 307			7.231	1/2-			307
43SC 308					7.241	(3/2+)	308

43SC 309			7.247	1/2-			309
43SC 310					7.251	(3/2+)	310

43SC 311	7.255	1/2+					311
43SC 312			7.257	3/2-			312
43SC 313					7.263		313
43SC 314					7.266	(3/2+)	314
43SC 315					7.269		315
43SC 316					7.273	(15/2,17/2,19/2)	316+)
43SC 317					7.275		317
43SC 318					7.281	(1/2-)	318
43SC 319					7.285		319
43SC 320					7.288		320

43SC 321	7.290	3/2+					321
43SC 322					7.291	(3/2+)	322
43SC 323					7.295		323
43SC 324					7.302		324
43SC 325					7.305		325
43SC 326			7.308	3/2-			326
43SC 327			7.309	1/2-			327
43SC 328					7.311	(3/2+)	328
43SC 329					7.313		329
43SC 330	7.316	1/2+					330

43SC 331			7.327	1/2-			331
43SC 332					7.330	(3/2+)	332
43SC 333	7.339	1/2+					333
43SC 334					7.344	3/2-,5/2	334
43SC 335					7.349		335
43SC 336					7.354		336
43SC 337					7.359	(25/2)+	337 340 FS 21
43SC 338	7.364	1/2+					338
43SC 339			7.365	1/2-			339
43SC 340			7.370	1/2-			340

43SC 341			7.371	1/2-			341
43SC 342					7.373		342
43SC 343	7.378	1/2+					343
43SC 344					7.380	1/2-,3/2-	344
43SC 345					7.382		345
43SC 346					7.385	(5/2-)	346
43SC 347					7.388		347
43SC 348	7.390	1/2+					348
43SC 349					7.394	3/2-,5/2+	349
43SC 350	7.396	3/2+					350

43SC 351					7.402		351
43SC 352			7.412	1/2-			352
43SC 353					7.415	(3/2+)	353

43SC 354			7.419	3/2-			354
43SC 355					7.423		355
43SC 356	7.425	5/2+					356
43SC 357					7.429		357
43SC 358					7.433		358
43SC 359	7.440	5/2+					359
43SC 360					7.443		360

43SC 361	7.445	1/2+					361
43SC 362			7.448	1/2-			362
43SC 363					7.450		363
43SC 364					7.462	(3/2+)	364
43SC 365			7.464	3/2-			365
43SC 366					7.466		366
43SC 367					7.471		367
43SC 368			7.477	1/2-			368
43SC 369					7.477	(5/2+)	369
43SC 370			7.479	3/2-			370

43SC 371					7.484	(5/2-)	371
43SC 372	7.492	1/2+					372
43SC 373					7.498		373
43SC 374					7.502	(5/2-)	374
43SC 375			7.509	3/2-			375
43SC 376					7.512	(7/2+)	376
43SC 377					7.513		377
43SC 378					7.518	(5/2+)	378
43SC 379					7.522		379
43SC 380					7.528	(3/2-)	380

43SC 381					7.530	1/2-, 3/2-	381
43SC 382					7.536		382
43SC 383			7.539	3/2-			383
43SC 384	7.540	1/2+					384
43SC 385					7.544		385
43SC 386					7.551		386
43SC 387					7.557	(5/2+)	387
43SC 388					7.559		388
43SC 389			7.560	3/2-			389
43SC 390					7.564	(3/2+)	390

43SC 391	7.570	1/2+					391
43SC 392					7.581	(3/2-, 5/2, 7/2+)	392
43SC 393			7.587	1/2-			393
43SC 394					7.592		394
43SC 395					7.595	(3/2+)	395
43SC 396			7.597	1/2-			396
43SC 397	7.600	1/2+					397
43SC 398					7.604	(3/2+)	398
43SC 399					7.607		399

43SC 400				7.611		400
43SC 401			7.614	3/2-		401
43SC 402				7.616	(1/2-)	402
43SC 403			7.620	1/2-		403
43SC 404				7.621	(3/2+)	404
43SC 405				7.624		405
43SC 406				7.626	(3/2+)	406
43SC 407				7.627	(5/2+)	407
43SC 408			7.631	3/2-		408
43SC 409			7.639	3/2-		409
43SC 410				7.644	(3/2+)	410
43SC 411				7.646	(3/2+)	411
43SC 412			7.660	3/2-		412
43SC 413	7.667	1/2+				413
43SC 414	7.668	1/2+				414
43SC 415			7.676	3/2-		415
43SC 416				7.684	(5/2-)	416
43SC 417			7.693	1/2-		417
43SC 418				7.700	5/2-,7/2-	418
43SC 419				7.703	(5/2+)	419
43SC 420	7.708	1/2+				420
43SC 421			7.711	1/2-		421
43SC 422				7.715	(5/2-)	422
43SC 423			7.722	1/2-		423
43SC 424				7.734	(5/2+)	424
43SC 425			7.738	1/2-		425
43SC 426	7.739	1/2+				426
43SC 427			7.744	3/2-		427
43SC 428			7.747	1/2-		428
43SC 429			7.751	1/2-		429
43SC 430				7.754	(5/2+)	430
43SC 431				7.761	(5/2+)	431
43SC 432			7.761	1/2-		432
43SC 433	7.769	1/2+				433
43SC 434				7.785	(3/2+)	434
43SC 435				7.785	(5/2-)	435
43SC 436				7.798	(5/2+)	436
43SC 437	7.804	1/2+				437
43SC 438			7.807	3/2-		438
43SC 439			7.808	1/2-		439
43SC 440				7.811	(3/2+)	440
43SC 441				7.816	(5/2+)	441
43SC 442	7.819	1/2+				442
43SC 443	7.819	1/2+				443
43SC 444				7.820	(5/2+)	444

43SC 445			7.830	1/2-			445
43SC 446			7.830	3/2-			446
43SC 447					7.832	(5/2-)	447
43SC 448					7.833	(3/2+)	448
43SC 449					7.836	(5/2-)	449
43SC 450					7.838	(3/2+)	450

43SC 451	7.841	1/2+					451
43SC 452			7.844	3/2-			452
43SC 453			7.851	3/2-			453
43SC 454			7.859	1/2-			454
43SC 455			7.860	1/2-			455
43SC 456	7.862	3/2+					456
43SC 457			7.869	3/2-			457
43SC 458					7.900	5/2-, 7/2-	458
43SC 459					7.919	3/2+, (5/2+)	459
43SC 460					7.926	1/2-, (3/2-)	460

43SC 461	7.933	1/2+					461
43SC 462	7.941	1/2+					462
43SC 463					7.954	1/2-, (3/2-)	463
43SC 464					7.961	1/2-, (3/2-)	464
43SC 465					8.010	(19/2, 21/2, 23/2)	465+
43SC 466			8.014	1/2-			466
43SC 467					8.019	(3/2+, 5/2+)	467
43SC 468					8.021		468
43SC 469					8.027		469
43SC 470					8.034	(3/2+, 5/2+)	470

43SC 471					8.045	(3/2+, 5/2+)	471
43SC 472	8.048	1/2+					472
43SC 473					8.054		473
43SC 474			8.061	1/2-			474
43SC 475					8.063		475
43SC 476					8.065	3/2-, (1/2-)	476
43SC 477			8.068	3/2-			477
43SC 478			8.071	3/2-			478
43SC 479			8.074	3/2-			479
43SC 480					8.075	9/2+, (7/2+)	480

43SC 481					8.093		481
43SC 482					8.111	5/2-, 7/2-	482
43SC 483					8.122		483
43SC 484					8.132		484
43SC 485					8.139		485
43SC 486					8.149		486
43SC 487					8.193		487
43SC 488					8.380	5/2-, 7/2-	488
43SC 489					8.434	23/2(-)	489
43SC 490					8.556	23/2(-)	490

43SC 491			8.690	5/2-,7/2-	491
43SC 492			8.703	(25/2+)	492
43SC 493			8.832	(27/2+)	493 74 FS 15
43SC 494			8.910	5/2-,7/2-	494
43SC 495			9.170	5/2-,7/2-	495
43SC 496			9.219	(21/2-)	496
43SC 497			9.450	5/2-,7/2-	497
43SC 498			9.579	(27/2+)	498
43SC 499			9.750	5/2-,7/2-	499
43SC 500			9.995	(25/2-)	500

43SC 501			10.040	5/2-,7/2-	501
43SC 502			10.084	27/2(-)	502
43SC 503			10.179	(23/2,25/2,27/2	503+)
43SC 504			10.230	3/2+,5/2+	504
43SC 505			10.437	(25/2+)	505
43SC 506			10.613	(27/2-)	506
43SC 507			10.750	5/2-,7/2-	507
43SC 508			10.856	(27/2-)	508
43SC 509			10.910	5/2-,7/2-	509
43SC 510			11.252	(25/2+)	510

43SC 511			11.260	5/2-,7/2-	511
43SC 512			11.356	27/2(-)	512
43SC 513			11.560	5/2-,7/2-	513
43SC 514			11.661		514
43SC 515			11.807	(29/2-)	515
43SC 516			11.840	1/2-,3/2-	516
43SC 517			11.921	(25/2+)	517
43SC 518			12.053	(29/2-)	518
43SC 519			12.073	(29/2-)	519
43SC 520			12.090	1/2-,3/2-	520

S-n	=	12.138 (0.002)	-----		
43SC 521			12.615	(31/2-)	521
43SC 522			12.704		522
43SC 523			12.804	(27/2,29/2)	523
43SC 524			13.045	(29/2+)	524
43SC 525			13.117	(31/2-)	525
43SC 526			13.123		526
43SC 527			13.584	(29/2+)	527
43SC 528			14.406	(33/2-)	528
43SC 529			14.451	(29/2+)	529
43SC 530			14.561	(31/2-)	530

43SC 531			14.914	(31/2)	531
S-2p	=	15.207 (0.002)	-----		
43SC 532			15.911	(33/2+)	532
43SC 533			16.704		533

43SC 534				16.708		534
43SC 535				16.711		535
43SC 536				17.767	(35/2)	536
43SC 537				17.921	(31/2+)	537
43SC 538				18.197	(35/2-)	538
43SC 539				18.765	(37/2)	539
43SC 540				19.209	(37/2+)	540

S-p = 4.930 (0.002)-----

S-n = 12.138 (0.002)-----

S-2p = 15.207 (0.002)-----

S-2n = 23.688 (0.002)-----

S-alpha= 4.806 (0.000)-----

S+p = -8.649 (0.002)

S+n = -9.699 (0.003)

S+2p = -10.276 (0.002)

S+2n = -21.026 (0.002)

S+alpha = -8.243 (0.002)

gap p = -3.720 (0.003)

gap n = 2.439 (0.003)

gap 2p = 4.931 (0.003)

gap 2n = 2.662 (0.003)

gap alpha = -3.438 (0.002)