

^{41}Ca $Z = 20$ $N = 21$ [link to full NNDC output](#)

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

BE = 350.415 (0.000) MeV

Qbeta+ = 0.422 (0.000) MeV

	Energy T	J+	J-	J-other	T1/2
41CA 1			0.000	7/2-	1 9.94E+4 Y 15
41CA 2			1.943	3/2-	2 0.42 PS 5
41CA 3	2.010	3/2+			3 0.505 NS 12
41CA 4			2.462	3/2-	4 3.4 PS 10
41CA 5			2.576	5/2-	5 0.16 PS 4
41CA 6	2.605	5/2+			6 0.35 PS 6
41CA 7	2.670	1/2+			7 2.2 PS 5
41CA 8	2.885	7/2+			8 21 FS 17
41CA 9			2.959	7/2-	9 28 FS 7
41CA 10	3.050	3/2+			10 0.7 PS 3
41CA 11				3.131	11
41CA 12	3.201	9/2+			12 31 FS 10
41CA 13	3.370	11/2+			13 20.6 PS 8
41CA 14	3.400	1/2+			14 82 FS 21
41CA 15	3.495	5/2+			15 0.28 PS 6
41CA 16	3.527	3/2+			16 38 FS 17
41CA 17			3.614	1/2-	17 0.11 PS 5
41CA 18	3.614	7/2+			18 15 FS 9
41CA 19			3.677	9/2-	19 45 FS 12
41CA 20			3.731	3/2-	20 45 FS 14
41CA 21				3.737	21
41CA 22				3.740	(3/2,5/2)+ 22 35 FS LT
41CA 23	3.830	15/2+			23 3.02 NS 13
41CA 24	3.846	1/2+			24 111 FS 31
41CA 25	3.915	13/2+			25 1.5 PS 3
41CA 26	3.920	1/2+			26
41CA 27			3.944	1/2-	27 20 FS LT
41CA 28	3.974	7/2+			28 24 FS 10
41CA 29	3.976	11/2+			29 23 FS 7
41CA 30			4.015	11/2-	30 10 FS 4
41CA 31	4.097	5/2+			31 21 FS LT
41CA 32				4.184	(3/2,5/2) 32 39 FS 12
41CA 33				4.277	(5/2,7/2,9/2)- 33 26 FS LT
41CA 34				4.328	34 110 FS LT
41CA 35			4.343	9/2-	35 0.13 PS 3
41CA 36	4.417	3/2+			36 40 FS 10
41CA 37	4.451	9/2+			37 83 FS 31

41CA 38		4.520	13/2+					38	49 FS	LT
41CA 39						4.550		39	93 FS	21
41CA 40						4.569		40		

41CA 41					4.603	3/2-		41	37 FS	LT
41CA 42							4.648	42		
41CA 43							4.728	43	30 FS	LT
41CA 44							4.731	44	21 FS	10
41CA 45					4.753	1/2-		45	30 FS	10
41CA 46							4.779	46	15 FS	LT
41CA 47							4.797	47		
41CA 48		4.815	5/2+					48	37 FS	LT
41CA 49							4.831	49		
41CA 50					4.883	5/2-		50	87 FS	LT

41CA 51							4.928	51		
41CA 52							4.966	52		
41CA 53		4.973	9/2+					53	49 FS	45
41CA 54							4.995	54		
41CA 55		5.010	1/2+					55		
41CA 56							5.047	56		
41CA 57							5.057	57	0.14 PS	7
41CA 58					5.072	1/2-		58		
41CA 59					5.078	1/2-		59		
41CA 60		5.095	3/2+					60		

41CA 61					5.120	3/2-		61	0.8 PS	7
41CA 62					5.148	7/2-		62		
41CA 63							5.154	63	125 FS	LT
41CA 64		5.195	9/2+					64		
41CA 65							5.219	65	28 FS	LT
41CA 66		5.283	5/2+					66	37 FS	LT
41CA 67							5.290	67	104 FS	LT
41CA 68							5.305	68		
41CA 69							5.340	69		
41CA 70					5.350	7/2-		70		

41CA 71					5.369	3/2-		71		
41CA 72		5.411	5/2+					72	30 FS	LT
41CA 73					5.452	1/2-		73		
41CA 74					5.468	3/2-		74		
41CA 75							5.482	75		
41CA 76							5.506	76	62 FS	21
41CA 77							5.520	77		
41CA 78							5.539	78		
41CA 79							5.588	79		
41CA 80							5.616	80		

41CA 81							5.635	81		
41CA 82							5.649	82		

41CA 83				5.669	3/2-				83
41CA 84							5.685	(5/2,7/2)-	84
41CA 85				5.704	1/2-				85
41CA 86							5.719	(5/2)-	86
41CA 87		5.728	5/2+						87
41CA 88		5.751	9/2+						88
41CA 89							5.760	(5/2)+	89
41CA 90							5.801	(5/2)-	90

41CA 91		5.817	3/2 3/2+						91 28 FS LT
41CA 92							5.849		92
41CA 93							5.866		93
41CA 94				5.892	1/2-				94
41CA 95							5.910		95
41CA 96							5.933	(5/2)-	96
41CA 97							5.976	(3/2,5/2)+	97
41CA 98		5.984	1/2+						98
41CA 99				6.005	1/2-				99
41CA 100							6.013		100

41CA 101							6.036	(9/2)+	101
41CA 102							6.066	(5/2:11/2)+	102
41CA 103							6.083	(3/2)+	103
41CA 104		6.099	5/2+						104
41CA 105							6.141	(5/2,7/2)-	105
41CA 106							6.148		106
41CA 107							6.164		107
41CA 108				6.180	1/2-				108
41CA 109							6.193		109
41CA 110				6.208	3/2-				110

41CA 111				6.239	5/2-				111
41CA 112							6.245		112
41CA 113				6.273	5/2-				113
41CA 114							6.284	(5/2)+	114
41CA 115				6.296	7/2-				115
41CA 116							6.325	(5/2)+	116
41CA 117		6.354	5/2+						117
41CA 118				6.377	1/2-				118
41CA 119							6.401	(9/2)+	119
41CA 120							6.411	(1/2,3/2,5/2+)	120

41CA 121				6.438	5/2-				121
41CA 122				6.451	5/2-				122
41CA 123							6.462	(5/2:11/2)+	123
41CA 124							6.483	+	124
41CA 125				6.521	5/2-				125
41CA 126							6.527	(5/2:11/2)+	126
41CA 127							6.553		127
41CA 128				6.567	7/2-				128

41CA 129					6.603	(GE 5/2)	129		
41CA 130					6.614	(GE 5/2)	130		

S-alpha=		6.615	(0.000)	-----				
41CA 131					6.629		131		
41CA 132				6.647	5/2-		132		
41CA 133		6.674		5/2+			133		
41CA 134				6.686	7/2-		134		
41CA 135				6.729	7/2-		135		
41CA 136						6.738	(5/2:11/2)+	136	
41CA 137				6.748	7/2-		137		
41CA 138						6.793	(5/2)+	138	
41CA 139						6.807	(3/2)+	139	
41CA 140		6.822		3/2 1/2+			140	28 FS	LT

41CA 141						6.826	(15/2,19/2)	141	1.7 PS LT
41CA 142		6.852		5/2+			142		
41CA 143						6.870	(5/2)-	143	
41CA 144		6.901		5/2+			144		
41CA 145						6.917	(9/2)+	145	
41CA 146						6.932		146	
41CA 147						6.966	3/2+,5/2+	147	
41CA 148				6.991	5/2-		148		
41CA 149						7.015	(9/2)+	149	
41CA 150						7.027		150	

41CA 151				7.041	3/2-		151		
41CA 152				7.073	1/2-		152		
41CA 153						7.093	(9/2)+	153	
41CA 154						7.108	(5/2:11/2)-	154	
41CA 155						7.116		155	
41CA 156		7.137		5/2+			156		
41CA 157				7.146	3/2 7/2-		157		
41CA 158						7.164	(9/2)+	158	
41CA 159						7.176	(5/2,7/2)-	159	
41CA 160				7.191	1/2-		160		

41CA 161						7.225		161	
41CA 162				7.238	5/2-		162		
41CA 163						7.268	(5/2)+	163	
41CA 164				7.296	5/2-		164		
41CA 165				7.308	7/2-		165		
41CA 166						7.332		166	
41CA 167		7.341		3/2+			167		
41CA 168						7.365	(5/2)-	168	
41CA 169		7.367		1/2+			169		
41CA 170						7.377	(5/2)-	170	

41CA 171						7.393	(5/2:11/2)+	171	
41CA 172						7.417	(7/2,9/2)-	172	

41CA 173			7.437	5/2-			173
41CA 174					7.440	1/2+&(3/2,5/2)+	174
41CA 175			7.459	5/2-			175
41CA 176					7.488	+	176
41CA 177			7.509	7/2-			177
41CA 178			7.525	7/2-			178
41CA 179					7.533	(5/2:11/2)+	179
41CA 180					7.538	(5/2)-	180

41CA 181					7.553		181
41CA 182					7.576	+	182
41CA 183					7.587	(5/2,7/2)-	183
41CA 184					7.608	(9/2)+	184
41CA 185					7.614		185
41CA 186					7.631	(9/2)+	186
41CA 187					7.639		187
41CA 188					7.657	(1/2,3/2,5/2+)	188
41CA 189					7.679		189
41CA 190					7.707	(GE 5/2)	190

41CA 191					7.720		191
41CA 192					7.732	(GE 5/2)	192
41CA 193	7.751	1/2+					193
41CA 194	7.770	1/2+					194
41CA 195					7.792		195
41CA 196			7.817	5/2-			196
41CA 197					7.854		197
41CA 198			7.888	5/2-			198
41CA 199					7.901		199
41CA 200					7.919	(5/2)-	200

41CA 201			7.957	5/2-			201
41CA 202			7.974	7/2-			202
41CA 203					7.990	1/2+&3/2+,5/2+	203
41CA 204					7.995	(9/2)+	204
41CA 205					8.040	(5/2:11/2)+	205
41CA 206					8.047	(5/2)-	206
41CA 207			8.063	7/2-			207
41CA 208			8.102	7/2-			208
41CA 209	8.120	5/2+					209
41CA 210					8.136	(5/2)-	210

41CA 211					8.151	(5/2)-	211
41CA 212	8.179	5/2+					212
41CA 213			8.200	7/2-			213
41CA 214	8.229	5/2+					214
41CA 215					8.242	(1/2,3/2,5/2+)	215
41CA 216					8.259		216
41CA 217					8.272		217
41CA 218					8.311	(3/2,5/2)+	218

41CA 219				8.313	(9/2)+	219
41CA 220				8.336	(5/2)-	220

41CA 221				8.347		221
S-n	=	8.363	(0.000)	-----		
41CA 222		8.373	5/2+			222
41CA 223				8.402	(5/2:11/2)+	223
41CA 224				8.447	(9/2)+	224
41CA 225			8.467	7/2-		225
41CA 226				8.504	(5/2:11/2)+	226
41CA 227			8.522	7/2-		227
41CA 228			8.549	5/2-		228
41CA 229		8.551	1/2+			229
41CA 230			8.585	7/2-		230

41CA 231			8.620	5/2-		231
41CA 232				8.630	(5/2:11/2)+	232
41CA 233			8.638	5/2-		233
41CA 234				8.656	(5/2:11/2)+	234
41CA 235				8.674		235
41CA 236		8.700	5/2+			236
41CA 237				8.741		237
41CA 238			8.783	5/2-		238
41CA 239				8.855	(9/2+)	239
S-p	=	8.891	(0.000)	-----		
41CA 240				8.916	(3/2-,9/2+)	240

41CA 241				8.980	(5/2)+	241
41CA 242				8.997	(9/2+)	242
41CA 243				9.047	(3/2,5/2)+	243
41CA 244			9.084	5/2-		244
41CA 245				9.140		245
41CA 246				9.177	(5/2:11/2)+	246
41CA 247				9.216		247
41CA 248				9.273	(5/2:11/2)+	248
41CA 249				9.315		249
41CA 250		9.375	5/2+			250

41CA 251				9.420	(5/2:11/2)+	251
41CA 252				9.475		252
41CA 253				9.555	(5/2:11/2)+	253
41CA 254				9.590		254
41CA 255				9.616		255
41CA 256				9.650	(5/2:11/2)+	256
41CA 257				9.720	(5/2:11/2)+	257
41CA 258				9.880	(5/2:11/2)+	258
41CA 259				9.910	(5/2:11/2)+	259
41CA 260				9.920	(5/2:11/2)+	260

41CA 261				10.030		261

41CA 262			10.113		262
41CA 263			10.177		263
41CA 264			10.194		264
41CA 265			10.238		265
41CA 266			10.300	(5/2:11/2)+	266
41CA 267			10.339		267
41CA 268			10.421		268
41CA 269			10.752		269
41CA 270			10.859	(3/2,5/2)+	270

41CA 271			10.950	(3/2,5/2)+	271
41CA 272			11.817		272
S-p	=	8.891 (0.000)	-----		
S-n	=	8.363 (0.000)	-----		
S-2p	=	16.474 (0.005)	-----		
S-2n	=	23.998 (0.001)	-----		
S-alpha	=	6.615 (0.000)	-----		
S+p	=	-4.272 (0.000)			
S+n	=	-11.481 (0.000)			
S+2p	=	-8.761 (0.007)			
S+2n	=	-19.414 (0.000)			
S+alpha	=	-6.297 (0.001)			
gap p	=	4.619 (0.000)			
gap n	=	-3.118 (0.000)			
gap 2p	=	7.713 (0.009)			
gap 2n	=	4.584 (0.001)			
gap alpha	=	0.318 (0.001)			