

^{48}Sc $Z = 21$ $N = 27$ [link to full NNDC output](#)

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

BE = 415.498 (0.005) MeV

Qbeta- = 3.989 (0.005) MeV

	Energy T	J+	J-	J-other	T1/2
48SC 1	0.000	6+			1 43.67 H 9
48SC 2	0.131	5+			2
48SC 3	0.252	4+			3
48SC 4				0.388	4
48SC 5	0.623	3+			5
48SC 6	1.096	7+			6
48SC 7	1.143	2+			7
48SC 8			1.402 2-		8
48SC 9				1.432	9
48SC 10			1.891 3-		10
48SC 11	2.064	5+			11
48SC 12			2.104 4-		12
48SC 13				2.165 4-,5-	13
48SC 14	2.190	3+			14
48SC 15				2.196 (5+)	15
48SC 16	2.200	1+			16
48SC 17				2.202 (2,3)+	17
48SC 18	2.275	2+			18
48SC 19				2.310	19
48SC 20	2.390	2+			20
48SC 21				2.391 3,4	21
48SC 22	2.517	1+			22
48SC 23				2.560 (3-)	23
48SC 24				2.620 (4,5)	24
48SC 25				2.626	25
48SC 26				2.640 1,2-	26
48SC 27				2.670 1-,2-	27
48SC 28				2.729 (4+,5+)	28
48SC 29			2.739 2-		29
48SC 30	2.783	2+			30
48SC 31				2.811 1,2,3	31
48SC 32				2.891 2(-),3(-)	32
48SC 33				2.924 2,3	33
48SC 34				2.973	34
48SC 35	2.981	1+			35
48SC 36				3.026 (2,3)	36
48SC 37	3.056	1+			37

48SC 38		3.150	1+					38
48SC 39						3.151	(3+)	39
48SC 40						3.216	LE 3	40

48SC 41						3.219	(4+)	41
48SC 42						3.258		42
48SC 43						3.289	(5+)	43
48SC 44						3.296	LE 4	44
48SC 45						3.302	LE 3	45
48SC 46						3.328	(4-)	46
48SC 47						3.353		47
48SC 48						3.372		48
48SC 49						3.392		49
48SC 50						3.438		50

48SC 51						3.480	3,4+	51
48SC 52						3.496	2-,1-	52
48SC 53						3.520	(2,3)+	53
48SC 54						3.568		54
48SC 55						3.619		55
48SC 56						3.650		56
48SC 57						3.671		57
48SC 58						3.690		58
48SC 59		3.711	1+					59
48SC 60						3.742		60

48SC 61						3.776		61
48SC 62						3.806		62
48SC 63						3.838		63
48SC 64						3.879		64
48SC 65						3.957		65
48SC 66						3.974		66
48SC 67						3.988		67
48SC 68						4.024		68
48SC 69						4.064		69
48SC 70						4.091		70

48SC 71						4.141		71
48SC 72						4.174	(3+)	72
48SC 73		4.175	1+					73
48SC 74						4.236		74
48SC 75		4.288	1+					75
48SC 76						4.322	1+,0+	76
48SC 77						4.396		77
48SC 78						4.437		78
48SC 79						4.560		79
48SC 80		4.676	1+					80

48SC 81						4.735		81
48SC 82		4.778	1+					82

48SC 83				4.862	(2,3)+	83
48SC 84				5.016	(2,3)+	84
48SC 85				5.202	(2,3)+	85
48SC 86				5.333	(2,3)+	86
48SC 87		5.454	1+			87
48SC 88				5.512	2+,3+	88
48SC 89				5.591	2+,3+	89
48SC 90		5.742	1+			90

48SC 91				5.880		91
48SC 92				5.975		92
48SC 93				5.990		93
48SC 94				6.187		94
48SC 95				6.242	2+,3+	95
48SC 96		6.677	0+			96
48SC 97				6.832	1+,2+,3+	97
48SC 98				6.952	1+,2+,3+	98
48SC 99				7.780		99
S-p	=	9.448	(0.005)	-----		
S-n	=	8.239	(0.005)	-----		
48SC 100				10.600		100

S-alpha=	=	11.147	(0.005)	-----		
48SC 101				13.800		101 2.2E+3 KEV5
48SC 102				16.810	(1+)	102
48SC 103				17.800		103 6.03E3 KEV10
S-p	=	9.448	(0.005)	-----		
S-n	=	8.239	(0.005)	-----		
S-2p	=	23.668	(0.005)	-----		
S-2n	=	18.885	(0.005)	-----		
S-alpha=	=	11.147	(0.005)	-----		
S+p	=	-11.349	(0.005)			
S+n	=	-10.129	(0.006)			
S+2p	=	-19.298	(0.005)			
S+2n	=	-16.186	(0.016)			
S+alpha	=	-9.365	(0.005)			
gap p	=	-1.900	(0.007)			
gap n	=	-1.890	(0.008)			
gap 2p	=	4.370	(0.007)			
gap 2n	=	2.699	(0.017)			
gap alpha	=	1.783	(0.007)			