

^{47}Sc $Z = 21$ $N = 26$ adopted link ENSDF link

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

BE = 407.259 (0.002) MeV

Qbeta- = 0.601 (0.002) MeV

	Energy T	J+	J-	J-other	T1/2
47SC 1			0.000 7/2-		1 3.3492 D 6
47SC 2				0.767 (3/2)+	2 272 NS 8
47SC 3			0.808 3/2-		3 15 PS 4
47SC 4				1.123	4
47SC 5				1.145	5
47SC 6			1.147 11/2-		6 3.2 PS 11
47SC 7			1.297 5/2 5/2-		7 62 FS 21
47SC 8				1.316	8
47SC 9	1.391	1/2+			9 9 PS 3
47SC 10	1.404	5/2+			10 0.97 PS 28
47SC 11				1.639	11
47SC 12				1.717	12
47SC 13				1.745	13
47SC 14				1.798 3/2,5/2-,7/2-	14 0.21 PS 6
47SC 15	1.798	1/2+			15
47SC 16				1.857 5/2-,7/2(+)	16 0.30 PS 6
47SC 17			1.878 9/2-		17 0.12 PS 6
47SC 18	2.002	3/2+			18 0.40 PS 9
47SC 19				2.148	19 2 PS GT
47SC 20				2.207 (7/2-)	20 0.08 PS 4
47SC 21			2.232 7/2-		21
47SC 22	2.381	5/2+			22 0.17 PS LT
47SC 23				2.409 7/2-,9/2	23 0.21 PS 11
47SC 24				2.410	24
47SC 25			2.499 7/2-		25 0.15 PS LT
47SC 26	2.529	1/2+			26 0.21 PS LT
47SC 27				2.642	27 0.32 PS 6
47SC 28				2.650	28
47SC 29				2.810 1/2-,3/2-	29
47SC 30				2.836 1/2-,3/2-	30
47SC 31				2.909	31
47SC 32				2.941	32
47SC 33				3.070	33
47SC 34				3.102 -	34
47SC 35				3.135 (-)	35
47SC 36				3.205 1/2-,3/2-	36
47SC 37			3.250 7/2-		37

47SC 38						3.256		1/2-, 3/2-		38
47SC 39						3.262		1/2-, 3/2-		39
47SC 40						3.290				40

47SC 41						3.303				41 0.07 PS 3
47SC 42						3.320				42
47SC 43						3.413		-		43
47SC 44						3.484		(-)		44
47SC 45				3.537		7/2-				45
47SC 46						3.576				46
47SC 47						3.656				47
47SC 48						3.728				48
47SC 49						3.804		3/2+, 5/2+		49
47SC 50		3.860		1/2+						50

47SC 51						3.867				51 0.21 PS 6
47SC 52						3.958		3/2+, 5/2+		52
47SC 53						4.008		-		53
47SC 54						4.019				54
47SC 55						4.031		5/2-, 7/2-		55
47SC 56				4.085		3/2-				56
47SC 57						4.099				57
47SC 58						4.111				58
47SC 59						4.191				59
47SC 60						4.257				60

47SC 61						4.275		1/2-, 3/2-		61
47SC 62						4.291				62
47SC 63				4.355		7/2-				63
47SC 64						4.378		1/2-, 3/2-		64
47SC 65						4.389		3/2+, 5/2+		65
47SC 66						4.408				66
47SC 67						4.475				67
47SC 68						4.505				68
47SC 69						4.515		1/2-, 3/2-		69
47SC 70						4.553		3/2+, 5/2+		70

47SC 71		4.609		1/2+						71
47SC 72				4.617		7/2-				72
47SC 73						4.631		1/2-, 3/2-		73
47SC 74						4.690				74
47SC 75						4.721				75
47SC 76						4.753				76
47SC 77						4.792				77
47SC 78						4.802				78
47SC 79				4.810		7/2-				79
47SC 80						4.817		3/2+, 5/2+		80

47SC 81						4.831				81
47SC 82						4.860				82

47SC 83				4.908	5/2-,7/2-	83
47SC 84				4.956		84
47SC 85				4.998		85
47SC 86				5.030	1/2-,3/2-	86
47SC 87				5.050		87
47SC 88				5.108		88
47SC 89				5.151	-	89
47SC 90				5.252		90

47SC 91				5.306		91
47SC 92		5.317	7/2-			92
47SC 93				5.319	1/2-,3/2-	93
47SC 94				5.361		94
47SC 95		5.381	7/2-			95
47SC 96				5.415	1/2-,3/2-	96
47SC 97				5.473		97
47SC 98				5.509		98
47SC 99				5.525	1/2-,3/2-	99
47SC 100				5.542		100

47SC 101		5.561	7/2-			101
47SC 102				5.571	1/2-,3/2-	102
47SC 103				5.600		103
47SC 104				5.659		104
47SC 105				5.685		105
47SC 106				5.719		106
47SC 107				5.760		107
47SC 108				5.824	1/2-,3/2-	108
47SC 109				5.855		109
47SC 110				5.893	-	110

47SC 111				5.946	3/2+,5/2+	111
47SC 112				5.987		112
47SC 113		6.010	7/2-			113
47SC 114				6.040	3/2+,5/2+	114
47SC 115		6.096	7/2-			115
47SC 116				6.133		116
47SC 117				6.184		117
47SC 118				6.223		118
47SC 119		6.262	7/2-			119
47SC 120				6.339		120

47SC 121				6.361		121
47SC 122				6.383		122
47SC 123				6.410		123
47SC 124				6.441		124
47SC 125				6.486		125
47SC 126				6.523	1/2-,3/2-	126
47SC 127				6.546		127
47SC 128				6.584		128

47SC 129				6.621		129
47SC 130				6.686		130

47SC 131				6.724		131
47SC 132				6.786		132
47SC 133				6.801		133
47SC 134				6.863		134
47SC 135				6.876		135
47SC 136				6.964	3/2+, 5/2+	136
47SC 137				7.117		137
47SC 138				7.427		138
47SC 139				7.523	1/2-, 3/2-	139
47SC 140				7.683		140

47SC 141				7.807	(7/	141
47SC 142				8.400	(7/ (7/2-)	142

S-p = 8.486 (0.003)-----
 S-n = 10.646 (0.002)-----
 S-2p = 22.299 (0.002)-----
 S-2n = 19.407 (0.002)-----
 S-alpha= 10.186 (0.002)-----

S+p = -11.445 (0.002)
 S+n = -8.239 (0.005)
 S+2p = -18.203 (0.002)
 S+2n = -18.368 (0.003)
 S+alpha = -10.291 (0.002)

gap p = -2.959 (0.004)
 gap n = 2.408 (0.006)
 gap 2p = 4.096 (0.003)
 gap 2n = 1.039 (0.004)
 gap alpha = -0.105 (0.003)