

$^{44}\text{Sc}$        $Z = 21$        $N = 23$       adopted link      ENSDF link

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

BE = 376.525 ( 0.002) MeV

Qbeta+ = 3.653 ( 0.002) MeV

	Energy T	J+	J-	J-other	T1/2
44SC 1	0.000	2+			1 3.97 H 4
44SC 2			0.068 1-		2 154.8 NS 8
44SC 3			0.146 0-		3 51.0 US 3
44SC 4			0.235 2-		4 6.12 NS 23
44SC 5	0.271	6+			5 58.61 H 10
44SC 6	0.350	4+			6 3.12 NS 19
44SC 7			0.425 3-		7 378 PS 42
44SC 8				0.531 3	8 4 PS GT
44SC 9			0.631 4-		9 404 PS 30
44SC 10	0.667	1+			10 50 FS 12
44SC 11				0.725 (1,2)+	11 (2)
44SC 12	0.762	3+			12 217 FS 14
44SC 13				0.829	13
44SC 14	0.968	7+			14 3.5 PS LT
44SC 15	0.985	3+			15 1.4 PS +6-4
44SC 16			1.006 4-		16 6 PS GT
44SC 17				1.047	17
44SC 18	1.052	3+			18 170 FS +55-42
44SC 19	1.142	1+			19
44SC 20	1.185	3+			20 38 FS 10
44SC 21			1.197 5-		21 2 PS GT
44SC 22				1.303	22
44SC 23	1.326	3+			23 125 FS 14
44SC 24			1.426 2-		24 42 FS 20
44SC 25				1.507 (4,5)+	25
44SC 26	1.531	5+			26
44SC 27			1.567 3-		27
44SC 28				1.592 (3,4)+	28
44SC 29				1.648 (0 TO 3-)	29 122 FS 19
44SC 30				1.652 (0+ TO 4+)	30 107 FS 24
44SC 31				1.680 (0 TO 3-)	31 97 FS 23
44SC 32				1.683 5	32
44SC 33				1.685 (4,6)-	33
44SC 34				1.728	34
44SC 35			1.755 6-		35
44SC 36	1.767	2+			36 55 FS 12
44SC 37				1.769 (2-,4-)	37

44SC 38						1.811	(1,3)+	38
44SC 39						1.866	(3,5)+	39
44SC 40						1.903		40
-----								
44SC 41						1.957	(2 TO 5)+	41
44SC 42						1.986	(3,4)-	42
44SC 43						2.032		43
44SC 44						2.105		44
44SC 45						2.115		45
44SC 46						2.178		46
44SC 47				2.211	6-			47
44SC 48				2.212	4-			48
44SC 49		2.241	2+					49
44SC 50						2.291	(2 TO 5)+	50
-----								
44SC 51						2.333	(1 TO 6)-	51
44SC 52						2.382		52
44SC 53						2.424	(2 TO 5)+	53
44SC 54						2.474	(2 TO 5)+	54
44SC 55				2.489	4-			55
44SC 56						2.524	(1 TO 6)-	56
44SC 57						2.556		57
44SC 58						2.584	(3,4)-	58
44SC 59				2.607	7-			59
44SC 60						2.617	(3,4)-	60
-----								
44SC 61						2.635		61
44SC 62		2.672	9+					62 1.7 PS 3
44SC 63						2.684		63
44SC 64						2.703	(2 TO 5)+	64
44SC 65						2.751	(3,4)-	65
44SC 66		2.779	2 0+					66
44SC 67						2.789	7	67
44SC 68						2.848		68
44SC 69						2.878		69
44SC 70						2.916	(2,3)+	70
-----								
44SC 71						2.982	(3,4)-	71
44SC 72				2.989	8-			72
44SC 73						3.001	(3,4)-	73
44SC 74						3.035		74
44SC 75						3.051		75
44SC 76						3.073	(2+ TO 5+)	76
44SC 77						3.100	(2+ TO 5+)	77
44SC 78						3.162	+	78
44SC 79						3.178		79
44SC 80						3.208		80
-----								
44SC 81						3.285	(2+ TO 5+)	81
44SC 82						3.323		82

44SC 83			3.364	8-			83
44SC 84					3.368	(2+ TO 5+)	84
44SC 85					3.420	(2+ TO 5+)	85
44SC 86					3.439		86
44SC 87					3.483		87
44SC 88	3.567	11+					88 47.5 PS 17
44SC 89					3.568		89
44SC 90					3.626	(2+ TO 5+)	90
-----							
44SC 91					3.720	+	91
44SC 92			3.829	9-			92
44SC 93					3.851	(2+ TO 5+)	93
44SC 94					3.900	(+)	94
44SC 95					3.967	+	95
44SC 96					3.975		96
44SC 97					4.024		97
44SC 98					4.040	+	98
44SC 99					4.053		99
44SC 100					4.087	(2+ TO 5+)	100
-----							
44SC 101					4.107	9	101
44SC 102	4.114	10+					102 0.35 PS LT
44SC 103					4.144	+	103
44SC 104					4.185		104
44SC 105					4.254	(2+ TO 5+)	105
44SC 106					4.296	(2+ TO 5+)	106
44SC 107					4.363	(2+ TO 5+)	107
44SC 108					4.391	(0+ TO 7+)	108
44SC 109					4.422	9	109
44SC 110					4.461		110
-----							
44SC 111					4.500		111
44SC 112					4.533	(2+ TO 5+)	112
44SC 113			4.541	10-			113
44SC 114					4.560		114
44SC 115					4.595		115
44SC 116					4.622		116
44SC 117					4.645		117
44SC 118					4.697	(2+ TO 5+)	118
44SC 119					4.746	(1- TO 6-)	119
44SC 120					4.762		120
-----							
44SC 121					4.820	(2+ TO 5+)	121
44SC 122					4.950	10	122
44SC 123					5.012		123
44SC 124					5.277		124
44SC 125					5.336		125
44SC 126			5.358	11-			126
44SC 127					5.500		127
44SC 128					5.526	(0+ TO 7+)	128

44SC 129				5.553	(1- T0 6-)	129			
44SC 130				5.608		130			
-----									
44SC 131				5.716		131			
44SC 132				6.377	12-	132	0.31	PS	10
44SC 133				6.441	12-	133	80	FS	24
S-alpha=		6.705	( 0.002)	-----					
S-p	=	6.696	( 0.002)	-----					
44SC 134				7.092	13-	134	0.20	PS	7
44SC 135				8.096	14-	135	0.18	PS	6
44SC 136				9.141	15-	136	118	FS	21
S-p	=	6.696	( 0.002)	-----					
S-n	=	9.699	( 0.003)	-----					
S-2p	=	17.372	( 0.002)	-----					
S-2n	=	21.838	( 0.002)	-----					
S-alpha=		6.705	( 0.002)	-----					
S+p	=	-8.483	( 0.002)						
S+n	=	-11.328	( 0.002)						
S+2p	=	-13.838	( 0.002)						
S+2n	=	-20.088	( 0.002)						
S+alpha	=	-9.087	( 0.002)						
gap p	=	-1.787	( 0.003)						
gap n	=	-1.628	( 0.003)						
gap 2p	=	3.534	( 0.002)						
gap 2n	=	1.749	( 0.003)						
gap alpha	=	-2.381	( 0.003)						