

$^{48}\text{Sc}$        $Z = 21$        $N = 27$       adopted link      ENSDF link

Based on ensdf\_240402 (Apr 2024), and mass evaluation from 2020

BE = 415.498 ( 0.005) MeV

Qbeta- = 3.989 ( 0.005) MeV

	Energy T	J+		J-		J-other	T1/2
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48SC	1	0.000	6+				1 43.71 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					1.592	10
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48SC	11			1.891	3-		11
48SC	12	2.064	5+				12
48SC	13			2.103	4-		13
48SC	14					2.165 4-,5-	14
48SC	15	2.190	3+				15
48SC	16	2.196	(5+)				16
48SC	17	2.200	1+				17
48SC	18	2.276	2+				18
48SC	19					2.310	19
48SC	20	2.386	2+				20
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48SC	21					2.391 3,4	21
48SC	22	2.517	1+				22
48SC	23			2.560	(3)-		23
48SC	24					2.619 (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
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48SC	31					2.811 1,2,3	31
48SC	32			2.891	2-		32
48SC	33					2.924 (3)	33
48SC	34					2.960	34
48SC	35	2.978	(5+)				35
48SC	36	2.981	1+				36

48SC 37						3.026 (2,3)	37
48SC 38		3.057	1+				38
48SC 39		3.150	1+				39
48SC 40		3.170	(3)+				40
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48SC 41						3.216 (0,1,2,3+	41
48SC 42		3.230	(4+)				42
48SC 43						3.258	43
48SC 44						3.281	44
48SC 45						3.296 (0+:4+)	45
48SC 46						3.302 (0:3+)	46
48SC 47					3.328 (4-)		47
48SC 48						3.353	48
48SC 49						3.372	49
48SC 50						3.387 0-,1-,2-	50
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48SC 51						3.438	51
48SC 52						3.485 3,4+	52
48SC 53						3.496 2-,1-	53
48SC 54						3.519 (2,3)+	54
48SC 55						3.568	55
48SC 56						3.619	56
48SC 57						3.655	57
48SC 58						3.671	58
48SC 59						3.690	59
48SC 60		3.712	1+				60
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48SC 61						3.743	61
48SC 62						3.776	62
48SC 63						3.806	63
48SC 64						3.832	64
48SC 65						3.870	65
48SC 66						3.919	66
48SC 67						3.957	67
48SC 68						3.974	68
48SC 69						3.985	69
48SC 70						4.024	70
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48SC 71						4.065	71
48SC 72						4.093	72
48SC 73		4.141	1+				73
48SC 74						4.168	74
48SC 75		4.190	(1+)				75
48SC 76		4.256	(1+)				76
48SC 77		4.289	1+				77
48SC 78						4.328 1+,0+	78
48SC 79						4.396	79
48SC 80						4.437	80
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48SC 81						4.560	81

48SC 82				4.670	5+,6+,7+	82
48SC 83		4.677	1+			83
48SC 84				4.735		84
48SC 85		4.786	1+			85
48SC 86				4.862	(2,3)+	86
48SC 87				5.012	(2,3)+	87
48SC 88				5.050		88
48SC 89				5.111		89
48SC 90				5.202	(2,3)+	90
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48SC 91		5.230	(1+)			91
48SC 92				5.296		92
48SC 93				5.354	(2,3)+	93
48SC 94		5.438	1+			94
48SC 95				5.513	(2,3)+	95
48SC 96				5.595	(2,3)+	96
48SC 97		5.754	1+			97
48SC 98				5.880	3+,4+,5+	98
48SC 99				5.900		99
48SC 100				5.962	0+,1+	100
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48SC 101				6.020	(2-,3-,4-	101
48SC 102				6.187	(0+,1+,2+	102
48SC 103				6.242	(2,3)+	103
48SC 104		6.250	(1+)			104
48SC 105				6.400		105
48SC 106				6.460		106
48SC 107				6.620		107
48SC 108		6.678	4 0+			108
48SC 109				6.832	1+,2+,3+	109
48SC 110				6.952	1+,2+,3+	110
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48SC 111		7.500	(1+)			111
48SC 112				7.780		112
S-p	=	9.448	( 0.005)	-----		
S-n	=	8.239	( 0.005)	-----		
48SC 113				10.600		113
S-alpha=	11.148	( 0.005)	-----			
48SC 114				13.300		114
48SC 115				13.800		115 2.2E+3 KEV5
48SC 116		16.840	4 (1+)			116
48SC 117				17.800		117 6.0E+3 KEV10
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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=	11.148	( 0.005)	-----			

S+p = -11.349 ( 0.005)  
S+n = -10.130 ( 0.005)  
S+2p = -19.297 ( 0.005)  
S+2n = -16.176 ( 0.006)  
S+alpha = -9.364 ( 0.005)

gap p = -1.900 ( 0.007)  
gap n = -1.891 ( 0.008)  
gap 2p = 4.371 ( 0.007)  
gap 2n = 2.709 ( 0.007)  
gap alpha = 1.784 ( 0.007)