

^{43}K $Z = 19$ $N = 24$ adopted link ENSDF link

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

BE = 368.777 (0.000) MeV

Qbeta- = 1.833 (0.000) MeV

	Energy	T	J+		J-		J-other		T1/2		
43K	1	0.000	3/2+						1	22.3 H	1
43K	2	0.561	1/2+						2	1.4 PS	+17-7
43K	3			0.738	7/2-				3	200 NS	5
43K	4			0.975	3/2-				4	1.6 PS	+14-6
43K	5	1.110	3/2+						5	1.0 PS	8
43K	6					1.207	(5/2,7/2)+		6	4.8 PS	GT
43K	7	1.510	7/2+						7	5.7 PS	15
43K	8					1.550	3/2+,5/2+		8	0.09 PS	6
43K	9					1.815	(5/2:11/2)+		9		
43K	10			1.850	11/2-				10	4.6 PS	12
43K	11					1.866	(3/2,5/2+)		11		
43K	12					1.956	(5/2:11/2)+		12		
43K	13					1.987	(9/2)		13		
43K	14	2.035	3/2+						14		
43K	15					2.049	(9/2)		15	1.7 PS	6
43K	16					2.081	(5/2,7/2)+		16		
43K	17					2.178	5/2(+)		17	0.07 PS	LT
43K	18					2.189	(3/2,5/2,7/2)		18		
43K	19					2.218	(3/2:9/2)-		19		
43K	20					2.345	(3/2-)		20	0.7 PS	+14-4
43K	21	2.451	5/2 1/2+						21		
43K	22					2.508	(11/2+)		22	5 PS	GT
43K	23					2.548	(1/2,3/2,5/2)-		23		
43K	24					2.668	3/2+,5/2+		24		
43K	25					2.784	(1/2:7/2)+		25		
43K	26					2.879	(1/2:7/2)+		26		
43K	27					2.981			27		
43K	28					2.987	(13/2-)		28		
43K	29					3.057	(5/2)+		29		
43K	30					3.084	3/2+,5/2+		30		
43K	31			3.115	15/2-				31	3.5 PS	7
43K	32					3.139	(13/2)		32		
43K	33					3.150			33		
43K	34					3.190	(1/2:7/2)+		34		
43K	35					3.229	3/2+,5/2+		35		
43K	36					3.264	(3/2,5/2)+		36		
43K	37					3.310	(3/2,5/2)+		37		

43K	38				3.342	3/2+,5/2+	38
43K	39				3.393	(3/2:7/2)+	39
43K	40				3.456	(3/2-)	40

43K	41				3.580		41
43K	42				3.591	(15/2+)	42
43K	43				3.608	(5/2-,7/2-)	43
43K	44				3.646	(3/2,5/2,7/2+)	44
43K	45				3.714	(3/2+,5/2+)	45
43K	46				3.837		46
43K	47				3.880	(3/2+,5/2+)	47
43K	48				3.970		48
43K	49				3.985		49
43K	50				4.018	3/2+,5/2+	50

43K	51				4.070		51
43K	52				4.124	3/2+,5/2+	52
43K	53				4.177		53
43K	54				4.234		54
43K	55				4.290		55
43K	56				4.410		56
43K	57				4.472	3/2+,5/2+	57
43K	58				4.540		58
43K	59				4.540		59
43K	60				4.680		60

43K	61				4.794	3/2+,5/2+	61
43K	62				4.860		62
43K	63				4.920		63
43K	64				4.930	(19/2-)	64
43K	65				5.030		65
43K	66				5.150		66
43K	67				5.194	3/2+,5/2+	67
43K	68				5.260		68
43K	69				5.380		69
43K	70				5.610	3/2+,5/2+	70

43K	71				5.900	3/2+,5/2+	71
43K	72				7.450	(3/2+,5/2+)	72

S-p = 9.442 (0.006)-----
S-n = 9.625 (0.000)-----
S-2p = 23.846 (0.069)-----
S-2n = 17.159 (0.000)-----
S-alpha= 9.200 (0.002)-----

S+p = -12.182 (0.001)
S+n = -7.277 (0.001)
S+2p = -19.075 (0.001)

S+2n = -16.183 (0.001)
S+alpha = -10.186 (0.002)

gap p = -2.741 (0.006)
gap n = 2.347 (0.001)
gap 2p = 4.771 (0.069)
gap 2n = 0.976 (0.001)
gap alpha = -0.986 (0.003)