

^{83}Kr $Z = 36$ $N = 47$ [link to full NNDC output](#)

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

BE = 721.745 (0.000) MeV

	Energy T	J+	J-	J-other	T1/2
83KR 1	0.000	9/2+			1 STABLE
83KR 2	0.009	7/2+			2 156.8 NS 5
83KR 3			0.042 1/2-		3 1.83 H 2
83KR 4			0.562 5/2-		4 6.2 PS 21
83KR 5				0.571 (3/2-)	5 1.04 PS 35
83KR 6			0.690 5/2-		6 10.4 PS 35
83KR 7	0.799	5/2+			7 1.7 PS 5
83KR 8				0.811 1/2-,3/2-	8
83KR 9	1.012	11/2+			9 0.76 PS 14
83KR 10				1.100 (1/2-,3/2-)	10
83KR 11	1.103	9/2+			11 0.24 PS 8
83KR 12	1.122	13/2+			12 1.3 PS 4
83KR 13				1.170 (7/2-)	13 2.1 PS 6
83KR 14				1.214 3/2+,5/2+	14
83KR 15				1.222 (5/2,7/2-)	15 1.3 PS 5
83KR 16	1.278	1/2+			16
83KR 17				1.517 (7/2+)	17 0.31 PS 14
83KR 18			1.529 9/2-		18 0.90 PS 21
83KR 19				1.534	19
83KR 20				1.642 (7/2+,9/2,11/2+	20) 0.21 PS 7
83KR 21				1.668 (5/2-,7/2-)	21
83KR 22	1.721	13/2+			22 0.49 PS 14
83KR 23	1.738	11/2+			23 0.35 PS +14-7
83KR 24				1.889 (-)	24 0.7 PS 3
83KR 25				2.035 (5/2-,7/2-)	25
83KR 26				2.121 (3/2+,5/2,7/2-)	26
83KR 27				2.188 (3/2+,5/2,7/2-)	27
83KR 28				2.236 3/2+,5/2+	28
83KR 29				2.261 (3/2+,5/2,7/2-)	29
83KR 30				2.266 (15/2+)	30 1.0 PS 5
83KR 31				2.271	31
83KR 32				2.290	32
83KR 33				2.338 (11/2-)	33
83KR 34	2.379	1/2+			34
83KR 35				2.470 (17/2-)	35 24 PS 10
83KR 36				2.478 (15/2+)	36
83KR 37	2.484	17/2+			37 0.21 PS +14-7
83KR 38				2.495 (1/2-,3/2-)	38

83KR 39						2.510	(13/2-)	39	2.1 PS	+21-10
83KR 40		2.551	17/2+					40	0.9 PS	7

83KR 41						2.585	3/2+,5/2+	41		
83KR 42						2.641	(15/2-)	42	4 PS	2
83KR 43						2.733	(5/2-,7/2-)	43		
83KR 44						2.734	(9/2+,17/2+)	44	0.35 PS	10
83KR 45						2.841	(17/2-)	45	1.73 PS	35
83KR 46						2.944	3/2+,5/2+	46		
83KR 47						2.986	(11/2,13/2,15/2	47)		
83KR 48		3.140	1/2+					48		
83KR 49						3.158	(19/2-)	49	1.11 PS	7
83KR 50						3.322		50		

83KR 51						3.367	(21/2-)	51	4 PS	+4-1
83KR 52						3.412	(21/2+)	52		
83KR 53						3.493		53		
83KR 54						3.603	(21/2-)	54	0.69 PS	14
83KR 55						3.686		55		
83KR 56						3.718	3/2+,5/2+	56		
83KR 57						3.772	7/2+,9/2+	57		
83KR 58						3.804		58		
83KR 59						3.821		59		
83KR 60						3.906	(19/2+)	60		

83KR 61						4.026	(21/2+)	61		
83KR 62						4.172	(21/2+)	62		
83KR 63						4.218	(23/2-)	63	0.42 PS	9
83KR 64						4.585	(23/2+)	64		
83KR 65						4.630		65		
83KR 66						4.695	(25/2-)	66	1.5 PS	+4-3
83KR 67						4.870	(25/2-)	67	0.6 PS	1
83KR 68						5.103	(25/2+)	68	0.4 PS	LE
83KR 69						5.184		69		
83KR 70						5.641	(27/2-)	70		

83KR 71						5.683	(27/2+)	71		
83KR 72						5.736	(29/2-)	72		
83KR 73						5.778		73		
83KR 74						6.373	(29/2+)	74	0.2 PS	LE

S-p = 9.781 (0.001)-----
S-n = 7.470 (0.000)-----
S-2p = 18.180 (0.001)-----
S-2n = 18.437 (0.001)-----
S-alpha= 6.498 (0.000)-----

S+p = -7.057 (0.002)
S+n = -10.520 (0.000)

S+2p = -15.691 (0.003)
S+2n = -17.632 (0.002)
S+alpha = -7.315 (0.000)

gap p = 2.724 (0.002)
gap n = -3.050 (0.000)
gap 2p = 2.489 (0.003)
gap 2n = 0.805 (0.002)
gap alpha = -0.816 (0.000)