

^{84}Kr $Z = 36$ $N = 48$ [link to full NNDC output](#)

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

BE = 732.266 (0.000) MeV

	Energy T	J+	J-	J-other	T1/2
84KR 1	0.000	0+			1 STABLE
84KR 2	0.882	2+			2 4.05 PS 13
84KR 3	1.837	0+			3 25 PS 10
84KR 4	1.898	2+			4 0.24 PS 5
84KR 5	2.095	4+			5 0.66 PS 13
84KR 6	2.345	4+			6 24 PS 3
84KR 7				2.489 (2+,3-)	7
84KR 8	2.623	2+			8 0.28 PS 14
84KR 9			2.700 3-		9 1.7 PS +14-11
84KR 10	2.759	2+			10
84KR 11			2.771 5-		11 7.6 PS 21
84KR 12	2.775	2+			12
84KR 13				2.861 (2+,3,4+)	13
84KR 14				3.042 (2+,3,4+)	14
84KR 15				3.082 3	15
84KR 16	3.173	6+			16 2.6 PS 7
84KR 17				3.183 (2+,3,4+)	17
84KR 18			3.219 5-		18 17 PS 4
84KR 19				3.225 (1-)	19
84KR 20	3.236	8+			20 1.83 US 4
84KR 21	3.289	5+			21 0.31 PS 10
84KR 22				3.312 (3)-	22
84KR 23				3.335	23
84KR 24				3.366 (1,2+)	24
84KR 25				3.408 (3-,4,5-)	25
84KR 26				3.427 (2+,3,4+)	26
84KR 27				3.463	27
84KR 28				3.476 (1-)	28
84KR 29				3.570 (3-)	29
84KR 30			3.587 6-		30 5.5 PS 14
84KR 31				3.638 (5-)	31 0.69 PS +28-21
84KR 32			3.652 7-		32
84KR 33				3.706 1(-),2,3(-)	33
84KR 34				3.718 (3-)	34
84KR 35				3.777	35
84KR 36			3.832 7-		36 4.9 PS 21
84KR 37				3.870 1,2,3	37
84KR 38				3.879 (2+,3)	38

84KR 39				3.927	1-			39		
84KR 40		3.951	6+					40	0.9 PS	5

84KR 41						4.002	(4-)	41	0.35 PS	10
84KR 42						4.084	(1,2+)	42		
84KR 43						4.117	1-,2-	43		
84KR 44						4.189	(2+,3)	44		
84KR 45						4.214		45		
84KR 46						4.239		46		
84KR 47						4.278		47		
84KR 48						4.350	(5-)	48	0.28 PS	+14-7
84KR 49				4.388	8-			49	6.7 PS	17
84KR 50						4.408	(6-)	50	0.31 PS	14

84KR 51						4.456		51		
84KR 52						4.595		52		
84KR 53						4.677		53		
84KR 54						4.707		54		
84KR 55		4.719	8+					55	5.5 PS	21
84KR 56				4.852	9-			56	0.8 PS	4
84KR 57						4.898		57		
84KR 58						4.929	(9-)	58	0.55 PS	21
84KR 59						4.976	(9+)	59		
84KR 60		5.204	10+					60	0.14 PS	4

84KR 61						5.358		61		
84KR 62		5.373	12+					62	43.7 NS	21
84KR 63		5.449	10+					63	3.5 PS	14
84KR 64						5.466		64		
84KR 65						5.641	(10-)	65	0.49 PS	21
84KR 66				5.902	11-			66	1.9 PS	6
84KR 67						6.067		67		
84KR 68						6.472		68		
84KR 69						6.572	(12)-	69	0.42 PS	14
84KR 70						6.590		70		

84KR 71						7.016	(13)-	71	0.17 PS	7

S-alpha=		7.105	(0.001)	-----						
84KR 72						7.653	(14-)	72	0.28 PS	7

S-n	=	10.520	(0.000)	-----						
84KR 73						10.521	4+,5+	73		

S-p = 10.715 (0.004)-----
 S-n = 10.520 (0.000)-----
 S-2p = 19.423 (0.000)-----
 S-2n = 17.990 (0.000)-----
 S-alpha= 7.105 (0.001)-----

S+p = -7.017 (0.000)

S+n = -7.112 (0.002)
S+2p = -16.662 (0.000)
S+2n = -16.969 (0.000)
S+alpha = -7.907 (0.000)

gap p = 3.698 (0.004)
gap n = 3.408 (0.002)
gap 2p = 2.762 (0.000)
gap 2n = 1.021 (0.000)
gap alpha = -0.802 (0.001)