

^{74}Kr $Z = 36$ $N = 38$ [link to full NNDC output](#)

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

BE = 631.445 (0.002) MeV

Qbeta+ = 2.956 (0.006) MeV

	Energy T	J+	J-	J-other	T1/2
74KR 1	0.000	0+			1 11.50 M 11
74KR 2	0.456	2+			2 23.4 PS 4
74KR 3	0.509	0+			3 13.0 NS 7
74KR 4	1.013	4+			4 3.60 PS 14
74KR 5				1.121	5
74KR 6				1.203 (2+)	6
74KR 7				1.654 (0+)	7
74KR 8				1.742 (2+)	8
74KR 9	1.781	6+			9 0.67 PS 7
74KR 10				1.941 (3+)	10
74KR 11				2.112 (4+)	11
74KR 12				2.613 (5+)	12
74KR 13				2.656 (4-)	13
74KR 14	2.748	8+			14 0.195 PS 28
74KR 15				2.812 (5-)	15
S-alpha=	2.827 (0.003)				
74KR 16				3.005 (5-)	16
74KR 17				3.139 (6-)	17
74KR 18				3.367 (7-)	18
74KR 19				3.452 (7+)	19
74KR 20				3.698 (7-)	20
74KR 21				3.761 (8+)	21
74KR 22				3.840 (8-)	22
74KR 23	3.892	10+			23 0.083 PS 21
74KR 24				4.133 (9-)	24 0.82 PS 8
74KR 25				4.244 (1+)	25
74KR 26				4.469	26
74KR 27				4.556 (10+)	27
74KR 28				4.592 (9-)	28
74KR 29				4.721 (10-)	29
74KR 30				5.086 (11-)	30 0.270 PS 28
74KR 31	5.180	12+			31 0.084 PS 21
74KR 32				5.570 (12+)	32
74KR 33				5.655	33
74KR 34				5.658 (11-)	34
74KR 35				5.764 (12-)	35
S-p	5.973 (0.008)				

74KR 36						6.211	(13-)	36	0.112 PS 21		
74KR 37		6.516	14+					37	0.090 PS 21		
74KR 38						6.853	(14+)	38			
74KR 39						6.874	(13-)	39			
74KR 40						6.967	(14-)	40			

74KR 41						7.488	(15-)	41	0.062 PS 14		
74KR 42		7.858	16+					42	0.083 PS 21		
74KR 43						8.219	(15-)	43			
74KR 44						8.318	(16-)	44			
74KR 45						8.413	(16+)	45			
74KR 46						8.898	(17-)	46	0.035 PS 14		
S-2p	=	9.042	(0.003)	-----							
74KR 47		9.306	18+					47	0.055 PS 21		
74KR 48						9.684	(17-)	48			
74KR 49						9.803	(18-)	49			
74KR 50						9.931	(18+)	50			

74KR 51						10.135	(18+)	51			
74KR 52						10.430	(19-)	52			
74KR 53		10.881	20+					53			
74KR 54						11.052		54			
74KR 55						11.297	(19-)	55			
74KR 56						11.430	(20-)	56			
74KR 57						11.986	(20+)	57			
74KR 58						12.088	(21-)	58			
74KR 59		12.650	22+					59			
74KR 60						13.012	(21-)	60			

74KR 61						13.193	(22-)	61			
S-n	=	13.851	(0.007)	-----							
74KR 62						13.896	(23-)	62			
74KR 63						13.926	(22+)	63			
74KR 64		14.687	24+					64			
74KR 65						14.828	(23-)	65			
74KR 66						15.126	(24-)	66			
74KR 67						15.908	(25-)	67			
74KR 68						16.011	(24+)	68			
74KR 69		17.067	26+					69			
74KR 70						17.299	(26-)	70			

74KR 71						18.173	(27-)	71			
74KR 72						19.750	(28-)	72			
74KR 73		19.859	28+					73			

S-p	=	5.973	(0.008)	-----							
S-n	=	13.851	(0.007)	-----							
S-2p	=	9.042	(0.003)	-----							
S-2n	=	24.534	(0.008)	-----							

S-alpha= 2.827 (0.003)-----

S+p = -2.176 (0.002)

S+n = -10.063 (0.008)

S+2p = -6.494 (0.034)

S+2n = -22.824 (0.004)

S+alpha = -3.267 (0.008)

gap p = 3.798 (0.008)

gap n = 3.788 (0.011)

gap 2p = 2.548 (0.035)

gap 2n = 1.709 (0.009)

gap alpha = -0.440 (0.008)