

^{77}Kr $Z = 36$ $N = 41$ [link to full NNDC output](#)

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

BE = 663.496 (0.002) MeV

Qbeta+ = 3.065 (0.003) MeV

	Energy T	J+	J-	J-other	T1/2
77KR 1	0.000	5/2+			1 74.4 M 6
77KR 2			0.067 3/2-		2 118 NS 12
77KR 3	0.150	7/2+			3 163 PS 14
77KR 4			0.245 5/2-		4 37 PS 4
77KR 5	0.279	9/2+			5 133 PS 7
77KR 6			0.460 1/2-		6
77KR 7			0.500 7/2-		7 5.2 PS 8
77KR 8				0.577 (3/2-,5/2,7/2-)	8
77KR 9				0.675 (3/2+,5/2)	9
77KR 10				0.714 (1/2-,3/2,5/2-)	10
77KR 11				0.733 (1/2,3/2,5/2)	11
77KR 12				0.747 (3/2+,5/2)	12
77KR 13	0.784	11/2+			13 1.5 PS 4
77KR 14				0.791 (1/2-,3/2,5/2)	14
77KR 15			0.799 9/2-		15 2.6 PS 3
77KR 16				0.872 (3/2,5/2)	16
77KR 17				0.956 (3/2+,5/2)	17
77KR 18				0.958	18
77KR 19	1.003	13/2+			19 1.87 PS 21
77KR 20				1.013 (1/2+,3/2,5/2-)	20
77KR 21				1.021	21
77KR 22				1.025 (3/2,5/2)	22
77KR 23				1.037 (3/2,5/2)	23
77KR 24				1.056	24
77KR 25				1.109 (5/2)	25
77KR 26				1.154	26
77KR 27			1.176 11/2-		27 1.19 PS 12
77KR 28				1.243 (1/2+,3/2,5/2-)	28
77KR 29				1.312 1/2,3/2,5/2(-	29)
77KR 30				1.444 1/2,3/2,5/2	30
77KR 31				1.510 (3/2+,5/2)	31
77KR 32			1.568 13/2-		32 0.64 PS 9
77KR 33	1.659	15/2+			33 0.62 PS 15
77KR 34				1.672 (3/2,5/2)	34
77KR 35				1.782 1/2,3/2,5/2	35
77KR 36				1.838 (1/2+,3/2,5/2)	36
77KR 37				1.866 (3/2+,5/2)	37

77KR 38						1.908	(3/2-,5/2-)	38	
77KR 39						1.913	(1/2-,3/2,5/2)	39	
77KR 40		1.917		17/2+				40	0.48 PS 11

77KR 41						2.026	1/2-,3/2-,5/2-	41	
77KR 42				2.062		15/2-		42	0.58 PS 12
77KR 43						2.140		43	
77KR 44						2.280		44	
77KR 45						2.390		45	
77KR 46				2.519		17/2-		46	0.35 PS 7
77KR 47						2.560		47	
77KR 48						2.605	(15/2-)	48	
77KR 49		2.707		19/2+				49	0.30 PS 9
77KR 50						2.823	(3/2-,5/2-)	50	

77KR 51						2.938	(17/2-)	51	
77KR 52		2.989		21/2+				52	0.17 PS 3
77KR 53						3.008	(3/2,5/2)-	53	
77KR 54						3.054	(1/2-,3/2-,5/2-	54)	
77KR 55				3.110		19/2-		55	0.35 PS 7
77KR 56						3.255	(19/2-)	56	
77KR 57				3.603		21/2-		57	0.39 PS LT
77KR 58						3.678	(21/2-)	58	
77KR 59		3.769		23/2+				59	0.21 PS 4
77KR 60						4.025	(23/2-)	60	

77KR 61		4.151		25/2+				61	0.111 PS 21
77KR 62						4.232	(23/2-)	62	

S-alpha=		4.367		(0.008)					
77KR 63						4.643	(25/2-)	63	
77KR 64						4.744	(25/2-)	64	
77KR 65		4.811		27/2+				65	0.17 PS 4
77KR 66						5.020	(27/2-)	66	
77KR 67						5.354	(27/2-)	67	
77KR 68		5.373		29/2+				68	0.16 PS 4
77KR 69						5.830	(29/2-)	69	
77KR 70						5.965	(29/2-)	70	

77KR 71		6.081		31/2+				71	0.111 PS LT
77KR 72						6.208	(31/2-)	72	
77KR 73						6.671	(31/2-)	73	0.17 PS LT
77KR 74						6.703	(33/2+)	74	0.055 PS 14

S-p		=		7.169		(0.010)			
77KR 75						7.179	(33/2-)	75	
77KR 76						7.389	(33/2-)	76	
77KR 77						7.573	(35/2-)	77	
77KR 78		7.639		35/2+				78	
77KR 79		8.208		37/2+				79	0.076 PS LT
77KR 80						8.677	(37/2-)	80	

77KR	81				8.969	(37/2-)	81
77KR	82				9.117	(39/2-)	82
S-n	=	9.227	(0.004)	-----			
77KR	83		9.487	39/2+			83
77KR	84		9.905	41/2+			84
77KR	85				10.336	(41/2-)	85
77KR	86				10.854	(43/2-)	86
77KR	87				11.748	(45/2+)	87
77KR	88				11.840	(45/2+)	88
77KR	89				12.183	(45/2-)	89
S-2p	=	12.578	(0.002)	-----			
77KR	90				12.797	(47/2-)	90
77KR	91				14.955	(51/2-)	91
77KR	92				17.354	(55/2-)	92

S-p = 7.169 (0.010)-----
 S-n = 9.227 (0.004)-----
 S-2p = 12.578 (0.002)-----
 S-2n = 21.988 (0.008)-----
 S-alpha= 4.367 (0.008)-----

S+p = -4.055 (0.004)
 S+n = -12.080 (0.002)
 S+2p = -9.885 (0.009)
 S+2n = -20.415 (0.004)
 S+alpha = -3.784 (0.004)

gap p = 3.115 (0.010)
 gap n = -2.853 (0.005)
 gap 2p = 2.692 (0.009)
 gap 2n = 1.573 (0.009)
 gap alpha = 0.583 (0.009)