

$^{81}\text{Kr}$        $Z = 36$        $N = 45$       [link to full NNDC output](#)

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

BE = 703.308 ( 0.001) MeV

Qbeta+ = 0.281 ( 0.001) MeV

	Energy T	J+	J-	J-other	T1/2
81KR 1	0.000	7/2+			1 2.29E+5 Y 11
81KR 2	0.050	9/2+			2 3.9 NS 4
81KR 3			0.191 1/2-		3 13.10 S 3
81KR 4			0.457 5/2-		4
81KR 5	0.549	5/2+			5
81KR 6				0.609 3/2+,5/2+	6
81KR 7			0.637 3/2-		7
81KR 8				0.701 (5/2)-	8
81KR 9				0.732 (5/2)+	9
81KR 10				0.874 (11/2)+	10
81KR 11				0.903 (7/2)-	11
81KR 12			0.920 3/2-		12
81KR 13				0.934 (11/2)+	13 0.19 PS 6
81KR 14				0.976 (13/2)+	14 1.5 PS 6
81KR 15	0.977	1/2+			15
81KR 16				0.982 (9/2+)	16
81KR 17				0.994 (1/2,3/2,5/2)-	17
81KR 18				1.015	18
81KR 19				1.026 3/2-,5/2-	19
81KR 20				1.094	20
81KR 21	1.100	5/2+			21
81KR 22				1.207 (7/2)	22
81KR 23				1.239 (3/2)+	23
81KR 24				1.278 (1/2,3/2)	24
81KR 25				1.281 (1/2+,3/2,5/2-)	25
81KR 26				1.338	26
81KR 27				1.349 (9/2)-	27
81KR 28				1.351 (3/2+,5/2,7/2-)	28
81KR 29				1.396 (3/2+,5/2,7/2-)	29
81KR 30				1.443 (9/2)-	30
81KR 31	1.492	1/2+			31
81KR 32				1.506 (3/2+,5/2,7/2)	32
81KR 33				1.558 1/2,3/2,5/2	33
81KR 34				1.608 (13/2)+	34 3.5 PS 21
81KR 35				1.678 1/2-,3/2-	35
81KR 36				1.683 7/2,9/2,11/2(+)	36
81KR 37				1.688 7/2,9/2,11/2(+)	37

81KR 38						1.744	(7/2)+	38		
81KR 39						1.745	(1/2)-	39		
81KR 40						1.782	7/2,9/2,11/2(+)	40		
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81KR 41						1.829	(11/2-)	41		
81KR 42						1.842	(13/2+)	42		
81KR 43						1.854		43		
81KR 44		1.888	5/2+					44		
81KR 45						1.903	7/2,9/2,11/2(+)	45		
81KR 46						1.991		46		
81KR 47						1.994	(15/2)+	47	0.15 PS	6
81KR 48						2.021		48		
81KR 49						2.065	(1/2,3/2)-	49		
81KR 50						2.069		50		
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81KR 51						2.097	(1/2,3/2,5/2-)	51		
81KR 52						2.136	(17/2)+	52	0.40 PS	8
81KR 53						2.144	(1/2,3/2,5/2-)	53		
81KR 54						2.166	(13/2)-	54		
81KR 55						2.192	(15/2+)	55	2.1 PS	GT
81KR 56						2.217	(13/2)+	56		
81KR 57		2.218	5/2+					57		
81KR 58						2.291	(5/2+,7/2,9/2-)	58		
81KR 59						2.363		59		
81KR 60		2.365	1/2+					60		
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81KR 61						2.420	(13/2-)	61		
81KR 62		2.421	1/2+					62		
81KR 63						2.530		63		
81KR 64						2.533	(15/2)-	64	1.4 PS	7
81KR 65						2.680		65		
81KR 66						2.695	(17/2+)	66		
81KR 67						2.699	(17/2)-	67	0.2 NS	LT
81KR 68						2.784	(15/2)	68		
81KR 69						2.828	(17/2)-	69	2.4 PS	8
81KR 70						2.830		70		
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81KR 71						3.061	(19/2-)	71	1.5 PS	6
81KR 72						3.070		72		
81KR 73						3.092	(17/2)	73	1.9 PS	6
81KR 74						3.195	(19/2)+	74	0.14 PS	6
81KR 75						3.270		75		
81KR 76						3.310		76		
81KR 77						3.393	(21/2)+	77	0.27 PS	6
81KR 78						3.456	(19/2)	78		
81KR 79						3.460		79		
81KR 80						3.491	(21/2-)	80	1.8 PS	8
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81KR 81						3.558	(19/2+)	81		
81KR 82						3.624	(21/2)+	82	0.33 PS	6

81KR 83				3.630		83
81KR 84				3.650	(21/2-)	84
81KR 85				3.750		85
81KR 86				3.820		86
81KR 87				3.855	(21/2)	87
81KR 88				3.957	(23/2)+	88 0.28 PS 5
81KR 89				4.099	(23/2-)	89 1.9 PS 6
81KR 90				4.180		90
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81KR 91				4.301	(23/2-)	91
81KR 92				4.470		92
81KR 93				4.472	(25/2)+	93 0.16 PS 6
81KR 94				4.560		94
81KR 95				4.690		95
81KR 96				4.714	(25/2-)	96 1.0 PS 6
81KR 97				4.820		97
81KR 98				4.960		98
81KR 99				5.047	(27/2)+	99 0.10 PS 4
81KR 100				5.130		100
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S-alpha=	5.522	( 0.001)	-----			
81KR 101				5.759	(29/2+)	101
S-p	=	9.096	( 0.001)	-----		
S-n	=	7.874	( 0.001)	-----		
81KR 102		9.717	3/2-			102
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S-p	=	9.096	( 0.001)	-----		
S-n	=	7.874	( 0.001)	-----		
S-2p	=	16.357	( 0.001)	-----		
S-2n	=	19.397	( 0.004)	-----		
S-alpha=	5.522	( 0.001)	-----			
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S+p	=	-5.781	( 0.003)			
S+n	=	-10.967	( 0.001)			
S+2p	=	-13.679	( 0.007)			
S+2n	=	-18.437	( 0.001)			
S+alpha	=	-5.832	( 0.003)			
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gap p	=	3.316	( 0.004)			
gap n	=	-3.093	( 0.002)			
gap 2p	=	2.677	( 0.007)			
gap 2n	=	0.960	( 0.004)			
gap alpha	=	-0.310	( 0.003)			