

^{82}Kr $Z = 36$ $N = 46$ adopted link ENSDF link

Based on ENSDF from Oct 2022, and mass evaluation from 2020

BE = 714.275 (0.000) MeV

	Energy T	J+	J-	J-other	T1/2
82KR 1	0.000	0+			1 STABLE
82KR 2	0.777	2+			2 4.45 PS 18
82KR 3	1.475	2+			3 12 PS AP
82KR 4	1.488	0+			4 10 PS 3
82KR 5	1.821	4+			5 0.67 PS 25
82KR 6				1.885	6
82KR 7				1.957 (2+)	7 1.1 PS 8
82KR 8	2.094	3+			8
82KR 9	2.172	0+			9
82KR 10				2.427 (4+)	10 0.57 PS 16
82KR 11	2.450	0+			11 0.17 PS AP
82KR 12	2.480	2+			12
82KR 13				2.547 (3-)	13
82KR 14				2.556 (4+)	14 1.4 PS 4
82KR 15			2.648 4-		15 7 PS LT
82KR 16	2.656	2+			16 0.03 PS 1
82KR 17				2.676	17
82KR 18				2.684	18
82KR 19				2.798	19
82KR 20				2.828 5(-)	20 14 PS 7
82KR 21				2.850 (4+)	21
82KR 22				2.920 (6+)	22 3 PS 1
82KR 23	2.945	2+			23
82KR 24				2.965	24
82KR 25				2.993	25
82KR 26				3.011 (5)-	26 2 PS 1
82KR 27				3.038 (6-)	27 0.58 NS 7
82KR 28				3.077	28
82KR 29				3.131	29
82KR 30				3.168 (6+)	30 0.76 PS 21
82KR 31				3.187	31
82KR 32				3.187 (0)+	32
82KR 33				3.207	33
82KR 34				3.217	34
82KR 35				3.234 (0+)	35
82KR 36				3.256 (6+)	36 0.36 PS 10
82KR 37				3.286	37
82KR 38			3.322 3-		38

82KR 39				3.348	(6-)	39	42 PS	14
82KR 40				3.356	1,2(+)	40		

82KR 41				3.392		41		
82KR 42				3.438		42		
82KR 43				3.457	1,2(+)	43		
82KR 44				3.462	(8+)	44	96 PS	12
82KR 45				3.497	(7-)	45	14 PS	+14-7
82KR 46				3.565	(0)+	46		
82KR 47				3.595	(7-)	47	7 PS	GT
82KR 48				3.656	4(+),5,6(+)	48		
82KR 49				3.681		49		
82KR 50				3.709	(7+)	50	0.8 PS	LT

82KR 51				3.716	(2+)	51		
82KR 52				3.743		52		
82KR 53				3.815	1,2(+)	53		
82KR 54				3.836	1,2	54		
82KR 55				3.846		55		
82KR 56				3.881	1,2(+)	56		
82KR 57				3.911	1,2(+)	57		
82KR 58				3.920		58		
82KR 59				3.951	4,5,6(+)	59		
82KR 60				3.958	1,2(+)	60		

82KR 61				3.998	4,5,6(+)	61		
82KR 62				4.016	(8+)	62	1.0 PS	+10-4
82KR 63				4.034		63	1.1 PS	3
82KR 64				4.063	4,5,6(+)	64		
82KR 65				4.068	4,5(+)	65		
82KR 66				4.125	(8+)	66	6 PS	2
82KR 67				4.136		67		
82KR 68				4.171	(8-)	68	2.4 PS	+24-8
82KR 69				4.343		69	1.0 PS	+24-3
82KR 70				4.438		70	0.17 PS	+8-4

82KR 71				4.609	(10+)	71	1.2 PS	+7-3
82KR 72				4.668	(9-)	72	1.1 PS	3
82KR 73				4.747	(9-)	73	0.6 PS	1
82KR 74				4.822	(10+)	74	1.2 PS	2
82KR 75				4.897		75		
82KR 76				5.012	(8+,9,10+)	76		
82KR 77				5.325	(10-)	77	1.0 PS	LT
82KR 78				5.703		78		

S-alpha=	5.991	(0.000)					
82KR 79				5.992		79	0.3 PS	1
82KR 80				6.010		80		

82KR 81				6.012		81	0.39 PS	7

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S-p    =  9.904 ( 0.001)-----  
S-n    = 10.967 ( 0.001)-----  
S-2p   = 17.410 ( 0.001)-----  
S-2n   = 18.841 ( 0.001)-----  
S-alpha=  5.991 ( 0.000)-----  
  
S+p    = -5.768 ( 0.002)  
S+n    = -7.470 ( 0.000)  
S+2p   = -14.636 ( 0.001)  
S+2n   = -17.990 ( 0.000)  
S+alpha = -6.356 ( 0.000)  
  
gap p   =  4.136 ( 0.003)  
gap n   =  3.497 ( 0.001)  
gap 2p  =  2.775 ( 0.002)  
gap 2n  =  0.851 ( 0.001)  
gap alpha = -0.365 ( 0.000)
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