

$^{47}\text{K}$        $Z = 19$        $N = 28$       [link to full NNDC output](#)

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

BE = 400.199 ( 0.001) MeV

Qbeta- = 6.632 ( 0.003) MeV

	Energy T	J+	J-	J-other	T1/2
47K 1	0.000	1/2+			1 17.50 S 24
47K 2	0.360	3/2+			2 1.1 NS 3
47K 3				2.020 (7/2-)	3 6.3 NS 4
47K 4				2.287	4
47K 5				3.350 5/2+,3/2+	5
47K 6				3.432 (5/2)+	6
47K 7				3.718 (3/2-)	7
47K 8				3.762 (5/2-)	8
47K 9	3.850	1/2+			9
47K 10	3.930	3/2+			10
47K 11				4.170	11
47K 12				4.360	12
47K 13				4.434	13
47K 14				4.740	14
47K 15				4.900	15
47K 16	5.220	5/2+			16
47K 17	5.465	5/2+			17
47K 18				5.790	18
47K 19				5.842 (5/2-)	19
47K 20				6.150 5/2+,3/2+	20
47K 21				6.260	21
47K 22				6.420	22
47K 23				6.462 (5/2)+	23
47K 24				6.870 (5/2)+	24
47K 25				7.150	25
47K 26				7.380	26
47K 27				7.570 (5/2)+	27
47K 28				7.762 (5/2)+	28
47K 29				8.035 (5/2)+	29
S-n =	8.369 ( 0.002)				
47K 30				8.530 5/2+,3/2+	30

S-p = 13.228 ( 0.002)

S-n = 8.369 ( 0.002)

S-2p = 32.027 ( 0.136)

S-2n = 15.239 ( 0.002)

S-alpha= 13.977 ( 0.062)-----

S+p = -15.802 ( 0.001)

S+n = -4.644 ( 0.002)

S+2p = -25.427 ( 0.003)

S+2n = -10.042 ( 0.002)

S+alpha = -9.942 ( 0.020)

gap p = -2.574 ( 0.002)

gap n = 3.726 ( 0.002)

gap 2p = 6.600 ( 0.136)

gap 2n = 5.197 ( 0.002)

gap alpha = 4.036 ( 0.065)