

^{45}V $Z = 23$ $N = 22$ [link to full NNDC output](#)

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

BE = 377.101 (0.001) MeV

Qbeta+ = 7.124 (0.001) MeV

	Energy T	J+	J-	J-other	T1/2
45V 1			0.000	7/2-	1 547 MS 6
45V 2				0.057 (5/2-)	2 4.2 NS LE
45V 3				0.057 (3/2-)	3 0.43 US 8
45V 4				0.386 (3/2+)	4
45V 5				0.797 (5/2+)	5
45V 6				1.272 (7/2+)	6
45V 7				1.324 (9/2-)	7
45V 8				1.462 (11/2-)	8

S-p	=	1.626 (0.001)			
45V 9				1.916 (9/2+)	9
45V 10				2.489 (11/2+)	10

45V 11				2.626 (13/2-)	11
45V 12				3.004 (15/2-)	12
45V 13				3.445 (13/2+)	13
45V 14				3.605 (17/2-)	14
45V 15				3.910 (15/2+)	15
45V 16				4.392 (19/2-)	16
45V 17				4.800 (7/2-)	17

S-alpha	=	5.669 (0.001)			
45V 18				5.686 (19/2+)	18
45V 19				6.207 (23/2-)	19
45V 20				7.160 (27/2-)	20

S-p = 1.626 (0.001)-----
 S-n = 15.841 (0.182)-----
 S-2p = 10.276 (0.002)-----
 S-2n = 30.112 (0.043)-----
 S-alpha= 5.669 (0.001)-----

S+p = -4.875 (0.011)
 S+n = -13.261 (0.001)
 S+2p = -5.258 (0.032)
 S+2n = -26.263 (0.001)
 S+alpha = -8.160 (0.002)

gap p = -3.248 (0.012)
 gap n = 2.580 (0.182)

gap 2p = 5.018 (0.032)
gap 2n = 3.849 (0.043)
gap alpha = -2.491 (0.003)