

^{53}V $Z = 23$ $N = 30$ [link to full NNDC output](#)

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

BE = 461.637 (0.003) MeV

Qbeta- = 3.436 (0.003) MeV

	Energy T	J+	J-	J-other	T1/2
53V 1			0.000	7/2-	1 1.543 M 14
53V 2				0.128 (5/2)-	2 0.7 NS LE
53V 3				0.228 (3/2)-	3 4.0 NS 3
53V 4			1.091	11/2-	4 2.0 PS 3
53V 5				1.266 (7/2,9/2)-	5 1.1 PS GT
53V 6				1.550 (3/2)-	6 0.08 PS +9-5
53V 7				1.653 (9/2,11/2)-	7 0.45 PS GT
53V 8				1.852 -	8
53V 9				1.904 (5/2)-	9
53V 10				1.958 (1/2)-	10 0.03 PS LT
53V 11				2.084 (3/2)-	11
53V 12				2.332 -	12
53V 13				2.357 -	13
53V 14			2.420	15/2-	14 0.9 PS 2
53V 15				2.524 -	15
53V 16				2.551 (1/2)-	16
53V 17				2.584 (3/2)-	17
53V 18				2.636 +	18
53V 19				2.706 (-)	19
53V 20				2.772 -	20
53V 21				2.829 (5/2)-	21
53V 22				2.888 +	22
53V 23				2.931 (3/2)-	23
53V 24				2.967 -	24
53V 25				3.062	25
53V 26				3.107	26
53V 27				3.158 -	27
53V 28				3.263	28
53V 29				3.320	29
53V 30				3.348	30
53V 31				3.411	31
53V 32				3.492	32
53V 33				3.520	33
53V 34				3.573	34
53V 35				3.661	35
53V 36				3.692	36
53V 37				3.738	37

53V	38				3.784				38
53V	39				3.841				39
53V	40				3.947				40

53V	41				3.999				41
53V	42				4.042				42
53V	43				4.085	(17/2,19/2-)	43	0.7 PS	GT
53V	44				4.143				44
53V	45				4.187				45
53V	46				4.218				46
53V	47				4.263				47
53V	48				4.306				48
53V	49				4.345				49
53V	50				4.392				50

53V	51				4.428				51
53V	52				4.497				52
53V	53				4.593				53
53V	54				4.669				54

S-p = 9.670 (0.008)-----
S-n = 8.479 (0.003)-----
S-2p = 23.200 (0.020)-----
S-2n = 15.790 (0.003)-----
S-alpha= 7.715 (0.004)-----

S+p = -12.373 (0.003)
S+n = -6.113 (0.015)
S+2p = -20.439 (0.003)
S+2n = -13.436 (0.095)
S+alpha = -8.060 (0.003)

gap p = -2.702 (0.008)
gap n = 2.365 (0.016)
gap 2p = 2.761 (0.020)
gap 2n = 2.354 (0.095)
gap alpha = -0.345 (0.005)