

^{53}V $Z = 23$ $N = 30$ adopted link ENSDF link

Based on ensdf_240402 (Apr 2024), and mass evaluation from 2020

BE = 461.638 (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/	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 = 9.663 (0.004) -----
S-n = 8.480 (0.003) -----
S-2p = 23.179 (0.004) -----
S-2n = 15.791 (0.003) -----
S-alpha= 7.714 (0.004) -----

S+p = -12.373 (0.003)
S+n = -6.118 (0.012)
S+2p = -20.439 (0.003)
S+2n = -13.416 (0.027)
S+alpha = -8.060 (0.003)

gap p = -2.710 (0.005)
gap n = 2.362 (0.012)
gap 2p = 2.740 (0.005)
gap 2n = 2.375 (0.027)
gap alpha = -0.345 (0.005)