

$^{46}\text{V}$        $Z = 23$        $N = 23$       adopted link      ENSDF link

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

BE = 390.363 ( 0.000) MeV

Qbeta+ = 7.052 ( 0.000) MeV

	Energy T	J+	J-	J-other	T1/2
46V 1	0.000	0+			1 422.50 MS 11
46V 2	0.801	3+			2 1.02 MS 7
46V 3	0.915	2+			3
46V 4	0.994	1+			4
46V 5	1.180	4+			5
46V 6	1.225	5+			6 0.42 NS 14
46V 7				1.237 (0-)	7
46V 8				1.254 (3-)	8
46V 9				1.263	9
46V 10				1.367 2	10
46V 11	1.376	3+			11
46V 12				1.432 (1,2)	12
46V 13	1.540	6+			13
46V 14	1.604	7+			14 0.75 NS 12
46V 15				1.666 3	15
46V 16	1.726	5+			16
46V 17				1.796	17
46V 18				1.834	18
46V 19			1.956 4-		19
46V 20	2.055	4+			20
46V 21				2.062	21
46V 22				2.299	22
46V 23				2.371 (3,4)	23
46V 24			2.388 5-		24
46V 25				2.430	25
46V 26				2.449 (1+,2+)	26
46V 27				2.564	27
46V 28				2.686	28
46V 29				2.757	29
46V 30				2.815	30
46V 31				2.834	31
46V 32				2.868	32
46V 33				2.877	33
46V 34			2.924 6-		34
46V 35				2.977	35
46V 36	3.094	9+			36
46V 37				3.111	37

46V	38						3.145		38	
46V	39						3.189		39	
46V	40						3.217		40	
-----										
46V	41						3.266		41	
46V	42		3.315	8+					42	
46V	43		3.366	6+					43	
46V	44						3.406	(6-)	44	
46V	45						3.408		45	
46V	46					3.522	7-		46	
46V	47						3.615		47	
46V	48		3.641	7+					48	
46V	49						3.658		49	
46V	50						3.731		50	
-----										
46V	51						3.791		51	
46V	52						3.871		52	
46V	53						3.881		53	
46V	54						4.010		54	
46V	55					4.184	8-		55	
46V	56						4.225	(7-)	56	
46V	57						4.330		57	
46V	58						4.476	(8-)	58	
46V	59		4.566	11+					59	
46V	60						4.844	(8+)	60	
-----										
46V	61		4.917	10+					61	
46V	62					4.932	9-		62	
46V	63						4.946	(9-)	63	
46V	64					5.282	10-		64	
S-p	=	5.355	( 0.001)	-----						
46V	65					6.255	11-		65	
46V	66		7.105	13+					66	
46V	67					7.166	12-		67	
S-alpha=	7.380	( 0.000)	-----							
46V	68						7.728	(11+)	68	
46V	69					8.199	13-		69	
46V	70						8.268	(12+)	70	
-----										
46V	71		8.488	15+					71	
46V	72					9.811	14-		72	
-----										
S-p	=	5.355	( 0.001)	-----						
S-n	=	13.261	( 0.001)	-----						
S-2p	=	13.838	( 0.002)	-----						
S-2n	=	29.410	( 0.007)	-----						
S-alpha=	7.380	( 0.000)	-----							
S+p	=	-4.776	( 0.005)	-----						

S+n = -13.002 ( 0.000)  
S+2p = -6.799 ( 0.007)  
S+2n = -23.545 ( 0.001)  
S+alpha = -7.976 ( 0.000)

gap p = 0.578 ( 0.005)  
gap n = 0.258 ( 0.001)  
gap 2p = 7.039 ( 0.007)  
gap 2n = 5.866 ( 0.007)  
gap alpha = -0.596 ( 0.000)