

$^{133}\text{Xe}$        $Z = 54$        $N = 79$       adopted link      ENSDF link

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

BE = 1118.882 ( 0.002) MeV

Qbeta- = 0.427 ( 0.002) MeV

	Energy T	J+	J-	J-other	T1/2
133XE 1	0.000	3/2+			1 5.2475 D 5
133XE 2			0.233	11/2-	2 2.198 D 13
133XE 3	0.263	1/2+			3
133XE 4	0.530	5/2+			4
133XE 5	0.608	5/2+			5
133XE 6	0.680	3/2+			6
133XE 7			0.744	9/2-	7
133XE 8	0.875	7/2+			8
133XE 9	0.911	3/2+			9
133XE 10			0.929	15/2-	10
133XE 11	1.052	5/2+			11
133XE 12	1.071	7/2+			12
133XE 13			1.170	13/2-	13
133XE 14	1.236	7/2+			14
133XE 15	1.298	5/2+			15
133XE 16	1.350	5/2+			16
133XE 17	1.386	7/2+			17
133XE 18	1.590	5/2+			18
133XE 19	1.609	9/2+			19
133XE 20				1.701 (7/2)	20
133XE 21			1.716	15/2-	21
133XE 22	1.744	11/2+			22
133XE 23	1.790	9/2+			23
133XE 24	1.862	9/2+			24
133XE 25			1.876	19/2-	25
133XE 26	2.062	13/2+			26
133XE 27				2.093 (9/2)-	27
133XE 28			2.124	23/2-	28
133XE 29				3.000 (7/2+)	29

S-p = 9.229 ( 0.005)-----

S-n = 6.436 ( 0.002)-----

S-2p = 17.010 ( 0.002)-----

S-2n = 15.373 ( 0.002)-----

S-alpha= 3.064 ( 0.002)-----

S+p = -6.537 ( 0.002)

S+n = -8.554 ( 0.002)  
S+2p = -14.785 ( 0.002)  
S+2n = -14.913 ( 0.004)  
S+alpha = -2.503 ( 0.002)

gap p = 2.692 ( 0.005)  
gap n = -2.118 ( 0.003)  
gap 2p = 2.225 ( 0.003)  
gap 2n = 0.460 ( 0.005)  
gap alpha = 0.561 ( 0.003)