

^{83}As $Z = 33$ $N = 50$ adopted link ENSDF link

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

BE = 713.771 (0.003) MeV

Qbeta- = 5.671 (0.004) MeV

	Energy T	J+	J-	J-other	T1/2
83AS 1				0.000 (5/2-)	1 13.4 S 4
83AS 2				0.307 (3/2-)	2
83AS 3				0.712	3
83AS 4				1.194	4
83AS 5				1.197	5
83AS 6				1.257	6
83AS 7				1.330	7
83AS 8				1.415	8
83AS 9				1.435	9
83AS 10				1.525	10
83AS 11				1.543 (9/2)	11
83AS 12				1.805	12
83AS 13				1.866 (11/2)	13
83AS 14				1.978	14
83AS 15				2.223	15
83AS 16				2.777	16
83AS 17				3.094 (13/2)	17
83AS 18				3.100	18
83AS 19				3.206	19
83AS 20				3.457 (15/2)	20
83AS 21				3.523	21
83AS 22				3.734	22
83AS 23				3.957	23
83AS 24				4.000	24
83AS 25				4.031	25
83AS 26				4.130	26
83AS 27				4.192	27
83AS 28				4.221	28
83AS 29				4.228	29
83AS 30				4.364	30
83AS 31				4.406	31
83AS 32				4.434	32
83AS 33				4.842	33

S-p = 11.543 (0.004)

S-n = 7.635 (0.005)

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S-2p = 26.619 ( 0.004)-----  
S-2n = 13.279 ( 0.004)-----  
S-alpha= 9.546 ( 0.003)-----  
  
S+p = -13.567 ( 0.003)  
S+n = -4.255 ( 0.004)  
S+2p = -23.484 ( 0.004)  
S+2n = -9.662 ( 0.004)  
S+alpha = -6.647 ( 0.004)  
  
gap p = -2.024 ( 0.005)  
gap n = 3.380 ( 0.006)  
gap 2p = 3.135 ( 0.006)  
gap 2n = 3.616 ( 0.006)  
gap alpha = 2.899 ( 0.005)
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