

^{81}As $Z = 33$ $N = 48$ adopted link ENSDF link

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

BE = 700.493 (0.003) MeV

Qbeta- = 3.856 (0.003) MeV

	Energy T	J+	J-	J-other	T1/2
81AS 1			0.000	3/2-	1 33.3 S 8
81AS 2				0.093	1/2-,3/2-,5/2- 2
81AS 3				0.290	(3/2)- 3
81AS 4				0.336	(5/2)- 4 0.7 NS LT
81AS 5				0.738	(5/2-) 5
81AS 6				0.757	7/2+,9/2+ 6
81AS 7				0.758	(3/2+,5/2-) 7
81AS 8				0.864	8
81AS 9				1.015	1/2-,3/2- 9
81AS 10				1.042	(7/2-) 10
81AS 11				1.083	(3/2+,5/2,7/2-) 11
81AS 12				1.129	(7/2,9/2-) 12
81AS 13				1.195	13
81AS 14				1.496	1/2-,3/2- 14
81AS 15				1.614	15
81AS 16	1.614	1/2+			16
81AS 17				1.672	(5/2-,7/2-) 17
81AS 18				1.870	(1/2,3/2) 18
81AS 19				1.879	7/2+,9/2+ 19
81AS 20				1.915	(7/2,9/2-) 20
81AS 21				2.077	(-) 21
81AS 22				2.142	(7/2+,9/2+) 22
81AS 23				2.251	23
81AS 24				2.518	24
81AS 25				2.625	(7/2+) 25
81AS 26				2.723	1/2-,3/2- 26
81AS 27				2.758	(7/2+,9/2+,11/2 27+)
81AS 28				2.862	(1/2-,3/2) 28
81AS 29				2.912	(3/2-) 29
81AS 30				2.966	(7/2+) 30
81AS 31				2.999	1/2-,3/2- 31
81AS 32				3.098	5/2-,7/2- 32
81AS 33				3.136	(3/2+) 33
81AS 34				3.195	(3/2+) 34
81AS 35				3.290	(7/2+,9/2+,11/2 35+)
81AS 36				3.306	36
81AS 37				3.368	(1/2,3/2) 37

81AS	38		3.480	1/2+				38
81AS	39					3.531	(1/2-, 3/2)	39
81AS	40					3.563	(1/2+, 3/2+)	40

81AS	41		3.596	1/2+				41
81AS	42					3.742		42
81AS	43					3.818	1/2-, 3/2-	43
81AS	44					3.914	(1/2+, 5/2-, 7/2-)	44
81AS	45					3.995	(1/2+, 5/2-, 7/2-)	45

S-p = 10.287 (0.003)-----
 S-n = 8.390 (0.004)-----
 S-2p = 24.563 (0.003)-----
 S-2n = 15.040 (0.006)-----
 S-alpha= 8.966 (0.004)-----

S+p = -12.350 (0.003)
 S+n = -5.643 (0.005)
 S+2p = -21.058 (0.005)
 S+2n = -13.279 (0.004)
 S+alpha = -8.467 (0.004)

gap p = -2.063 (0.004)
 gap n = 2.747 (0.006)
 gap 2p = 3.504 (0.005)
 gap 2n = 1.761 (0.007)
 gap alpha = 0.499 (0.005)