

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

Based on ensdf_240402 (Apr 2024), 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-	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	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	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	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)	44
81AS	45				3.995 (1/2+,5/2)	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)