

^{68}As $Z = 33$ $N = 35$ adopted link ENSDF link

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

BE = 581.927 (0.002) MeV

Qbeta+ = 8.084 (0.003) MeV

	Energy T	J+	J-	J-other	T1/2
68AS 1	0.000	3+			1 151.6 S 8
68AS 2	0.158	3+			2 5 NS LT
68AS 3				0.161 (2+)	3 10 NS LT
68AS 4	0.214	4+			4 5 NS LT
68AS 5	0.313	3+			5 5 NS LT
68AS 6	0.353	1+			6
68AS 7	0.363	1+			7
68AS 8	0.425	1+			8 107 NS +23-16
68AS 9	0.500	4+			9 5 NS LT
68AS 10	0.550	4+			10 5 NS LT
68AS 11				0.583	11
68AS 12	0.733	5+			12 5 NS LT
68AS 13				0.893 4(-)	13 5 NS LT
68AS 14				0.965 5(-)	14 5 NS LT
68AS 15				1.214 6(-)	15 5 NS LT
68AS 16				1.304 7(-)	16 5 NS LT
68AS 17				1.323 6(-)	17 5 NS LT
68AS 18				1.428 6(-)	18 5 NS LT
68AS 19				1.571 (6-)	19 19 NS 3
68AS 20				1.762	20
68AS 21				1.850 7(-)	21
68AS 22				1.859 (7-)	22 5 NS LT
68AS 23				1.955 7(-)	23 5 NS LT
68AS 24				2.058	24 5 NS LT
68AS 25				2.094 8(-)	25 5 NS LT
68AS 26				2.158 9(+)	26 36 NS 2
68AS 27				2.251 (7)	27 5 NS LT
68AS 28				2.302 8(-)	28 5 NS LT
68AS 29				2.474 8	29 5 NS LT
S-alpha=	2.487 (0.002)				
68AS 30				2.659	30
68AS 31				2.830 9(-)	31 5 NS LT
68AS 32				2.933	32
68AS 33				2.939 9	33 5 NS LT
68AS 34				2.983 9(-)	34
68AS 35				3.127	35 5 NS LT
68AS 36				3.170 10(+)	36 5 NS LT

68AS	37				3.183	11(+)	37	5 NS	LT
68AS	38				3.341		38	5 NS	LT
S-p = 3.510 (0.005)-----									
68AS	39				3.627	10(-)	39		
68AS	40				3.719	10(-)	40		

68AS	41				3.843		41		
68AS	42				4.320	(11-)	42		
68AS	43				4.366		43	5 NS	LT
68AS	44				4.388	12(+)	44	5 NS	LT
68AS	45				4.586		45	5 NS	LT
68AS	46				4.897	12(-)	46	5 NS	LT
68AS	47				5.003		47		
68AS	48				5.087	13(+)	48	5 NS	LT
68AS	49				5.653	(13-)	49	5 NS	LT
68AS	50				6.063	(15+)	50	5 NS	LT

68AS	51				6.804	(15-)	51		
68AS	52				7.709		52		
68AS	53				8.500		53		

S-p = 3.510 (0.005)-----
S-n = 10.379 (0.002)-----
S-2p = 9.749 (0.002)-----
S-2n = 23.012 (0.006)-----
S-alpha= 2.487 (0.002)-----

S+p = -4.829 (0.002)
S+n = -12.289 (0.032)
S+2p = -7.109 (0.015)
S+2n = -21.582 (0.002)
S+alpha = -2.592 (0.002)

gap p = -1.319 (0.005)
gap n = -1.910 (0.032)
gap 2p = 2.640 (0.015)
gap 2n = 1.430 (0.006)
gap alpha = -0.105 (0.003)