

^{75}As $Z = 33$ $N = 42$ adopted link ENSDF link

Based on ensdf_240402 (Apr 2024), and mass evaluation from 2020

BE = 652.566 (0.001) MeV

		Energy T	J+		J-	J-other	T1/2	

75AS	1				0.000	3/2-	1	STABLE
75AS	2				0.199	1/2-	2	885 PS 30
75AS	3				0.265	3/2-	3	11.2 PS 3
75AS	4				0.280	5/2-	4	273 PS 3
75AS	5	0.304	9/2+				5	17.62 MS 23
75AS	6	0.401	5/2+				6	1.67 NS 5
75AS	7				0.469	1/2-	7	
75AS	8				0.572	5/2-	8	2.9 PS 3
75AS	9				0.585	1/2-	9	
75AS	10					0.618 1/2-,3/2-	10	

75AS	11				0.822	7/2-	11	3.0 PS 3
75AS	12	0.860	1/2+				12	
75AS	13					0.865 (3/2-,5/2)	13	0.60 PS 5
75AS	14					0.886	14	
75AS	15				1.043	7/2-	15	
75AS	16				1.063	3/2-	16	
75AS	17				1.074	3/2-	17	0.199 PS 13
75AS	18	1.081	(5/2+)				18	
75AS	19				1.096	(7/2-)	19	
75AS	20					1.100 (5/2+,7/2)	20	

75AS	21	1.127	(1/2+)				21	1.02 PS 11
75AS	22					1.127 1/2-,3/2-	22	
75AS	23					1.172 (1/2-:7/2)	23	
75AS	24				1.204	3/2-	24	
75AS	25					1.260	25	
75AS	26	1.261	9/2+				26	
75AS	27	1.302	5/2+				27	
75AS	28				1.309	7/2-	28	
75AS	29				1.349	3/2-	29	0.125 PS 22
75AS	30				1.371	(3/2-)	30	0.15 PS 3

75AS	31				1.420	(5/2-)	31	
75AS	32	1.430	9/2+				32	
75AS	33				1.431	3/2-	33	
75AS	34	1.503	3/2(+)				34	
75AS	35				1.580	1/2-	35	
75AS	36					1.595 +	36	
75AS	37					1.606 1/2-,3/2-	37	

75AS 38		1.655	3/2(+)					38
75AS 39							1.660 5/2-, 7/2-	39
75AS 40					1.684	(3/2-)		40

75AS 41					1.688	1/2(-)		41
75AS 42					1.691	7/2-		42
75AS 43							1.765	43
75AS 44		1.808	9/2+					44
75AS 45							1.842	45
75AS 46					1.873	3/2-		46
75AS 47		1.901	(5/2+)					47
75AS 48		1.909	1/2+					48
75AS 49					1.928	7/2-		49
75AS 50							1.942 1/2-, 3/2-	50

75AS 51							1.988 1/2	51
75AS 52							2.001 5/2	52
75AS 53							2.010 (5/2)	53
75AS 54							2.021 (1/2-, 3/2)	54
75AS 55							2.061	55
75AS 56		2.067	(5/2+)					56
75AS 57							2.098	57
75AS 58		2.104	1/2(+)					58
75AS 59					2.111	3/2-		59
75AS 60							2.148	60

75AS 61		2.160	1/2+					61
75AS 62							2.176 1/2	62
75AS 63							2.210 5/2-, 7/2-	63
75AS 64							2.228 1/2-, 3/2	64
75AS 65					2.238	3/2-		65
75AS 66							2.259 1/2	66
75AS 67							2.296 5/2-, 7/2-	67
75AS 68							2.303 (3/2-, 5/2)	68
75AS 69							2.327	69
75AS 70							2.358	70

75AS 71					2.380	3/2-		71
75AS 72							2.419	72
75AS 73							2.446 1/2-, 3/2-	73
75AS 74							2.469	74
75AS 75							2.485 1/2-, 3/2-	75
75AS 76							2.503 (1/2-, 3/2)	76
75AS 77		2.508	(5/2+)					77
75AS 78							2.528	78
75AS 79		2.571	(5/2+)					79
75AS 80							2.595	80

75AS 81							2.609	81
75AS 82							2.663	82

75AS 83				2.683		83
75AS 84				2.798		84
75AS 85				2.920		85
75AS 86				2.938		86
75AS 87				3.046	1/2-, 3/2-	87
75AS 88				3.099	(1/2-, 3/2	88
75AS 89				3.152	(1/2-, 3/2	89)
75AS 90				3.222	1/2-, 3/2-	90

75AS 91				3.308		91
75AS 92				3.355		92
75AS 93				3.414		93
75AS 94				3.460		94
75AS 95				3.565	(1/2-, 3/2	95
75AS 96				3.608	(3/2+, 5/2	96
75AS 97				3.716	(1/2-, 3/2	97
75AS 98				3.778	(1/2-, 3/2	98
75AS 99				3.869	(1/2-, 3/2	99
75AS 100				3.906		100
S-alpha=		5.320	(0.001)	-----		
S-p		=	6.901 (0.001)	-----		

75AS 101		7.645	1/2(+)			101
75AS 102					9.399	102
S-n		=	10.245 (0.002)	-----		
75AS 103				10.421	(1/2-)	103
75AS 104		10.639	(9/2+)			104
75AS 105				10.668	(1/2-)	105
75AS 106				10.999	(3/2-)	106
75AS 107		11.027	(3/2+)			107
75AS 108					11.092	108
75AS 109		11.118	(1/2+)			109
75AS 110				11.334	(1/2-)	110

75AS 111				11.570	(3/2-)	111
75AS 112		11.842	(5/2+)			112
75AS 113					11.871	113
75AS 114					11.884	114
75AS 115					11.958	115
75AS 116					12.108	116
75AS 117					12.273	117
75AS 118					12.411	118
75AS 119					12.657	119
75AS 120					12.782	120

75AS 121					12.953	121
75AS 122					13.068	122
75AS 123					13.282	123

S-p = 6.901 (0.001) -----
S-n = 10.245 (0.002) -----
S-2p = 17.913 (0.002) -----
S-2n = 18.224 (0.004) -----
S-alpha= 5.320 (0.001) -----

S+p = -9.507 (0.001)
S+n = -7.328 (0.001)
S+2p = -14.779 (0.003)
S+2n = -17.025 (0.002)
S+alpha = -5.459 (0.001)

gap p = -2.606 (0.001)
gap n = 2.917 (0.002)
gap 2p = 3.134 (0.004)
gap 2n = 1.199 (0.004)
gap alpha = -0.139 (0.002)