

^{77}As $Z = 33$ $N = 44$ adopted link ENSDF link

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

BE = 669.590 (0.002) MeV

Qbeta- = 0.683 (0.002) MeV

	Energy T	J+	J-	J-other	T1/2
77AS 1			0.000	3/2-	1 38.79 H 5
77AS 2			0.195	3/2-	2 7.4 NS 3
77AS 3			0.216	3/2-	3 0.3 NS LT
77AS 4			0.264	5/2-	4 304 PS 3
77AS 5	0.475	9/2+			5 114.0 US 25
77AS 6			0.504	1/2-	6
77AS 7			0.614	3/2-	7
77AS 8	0.632	5/2+			8 60 PS 6
77AS 9				0.634 5/2+,7/2-	9
77AS 10			0.785	7/2-	10
77AS 11				0.875 3/2-,5/2+	11
77AS 12				0.889 3/2-,5/2,7/2-	12
77AS 13				1.008 (1/2-,3/2-)	13
77AS 14				1.048 (13/2+)	14
77AS 15				1.052 1/2-,3/2-	15
77AS 16				1.059 (9/2-)	16
77AS 17	1.158	1/2+			17
77AS 18			1.165	5/2-	18
77AS 19			1.190	7/2-	19 0.2 NS LT
77AS 20	1.201	1/2+			20
77AS 21				1.221 (11/2+)	21
77AS 22				1.280 (LE 7/2)	22
77AS 23			1.320	7/2-	23
77AS 24				1.345 (3/2-,5/2,7/2-)	24
77AS 25				1.350 (3/2-,5/2,7/2-)	25
77AS 26				1.398 (5/2-,7/2-)	26
77AS 27				1.399 (7/2+)	27
77AS 28				1.458 (5/2,7/2-)	28
77AS 29	1.528	5/2+			29
77AS 30				1.539 (1/2+,3/2,5/2+)	30
77AS 31	1.560	5/2+			31 0.1 NS LT
77AS 32				1.574 (3/2-,5/2,7/2-)	32
77AS 33				1.605 1/2-,3/2-	33
77AS 34				1.617 1/2-,3/2-	34
77AS 35				1.654 1/2-,3/2-	35
77AS 36				1.654 7/2+,9/2+	36
77AS 37				1.676 1/2-,3/2-	37

77AS 38						1.733	(3/2-, 5/2+)	38
77AS 39						1.737	(13/2+)	39
77AS 40						1.760		40

77AS 41						1.838	(LE 7/2)	41
77AS 42						1.888	(15/2+)	42
77AS 43						1.930		43
77AS 44						1.971	7/2+, 9/2+	44
77AS 45		2.000	5/2+					45
77AS 46						2.000	(17/2+)	46
77AS 47		2.111	5/2+					47
77AS 48						2.124		48
77AS 49				2.196	1/2-			49
77AS 50						2.335	1/2-, 3/2-	50

77AS 51						2.342	(5/2)+	51
77AS 52						2.354	(7/2-)	52
77AS 53						2.372	(3/2+, 5/2+)	53
77AS 54						2.425	(7/2-)	54
77AS 55						2.463	(5/2, 7/2, 9/2+)	55
77AS 56						2.513		56
77AS 57						2.513	(7/2)+	57
77AS 58						2.544	(5/2, 7/2-)	58
77AS 59						2.544	1/2-, 3/2-	59
77AS 60						2.585	(13/2-)	60

77AS 61						2.623	1/2-, 3/2-	61
77AS 62						2.623	7/2+, 9/2+	62
77AS 63						2.655	1/2-, 3/2-	63
77AS 64						2.745	(15/2-)	64
77AS 65						2.750	3/2+, 5/2+	65
77AS 66						2.846		66
77AS 67						2.934	(3/2:9/2)+	67
77AS 68						3.003	(17/2-)	68
77AS 69						3.009	(5/2-, 7/2, 9/2+)	69
77AS 70						3.086		70

77AS 71						3.118	(3/2+, 5/2+)	71
77AS 72						3.151	(21/2+)	72
77AS 73						3.190		73
77AS 74						3.258		74
77AS 75						3.312	3/2+, 5/2+	75
77AS 76						3.364	(19/2-)	76
77AS 77						3.376		77
77AS 78		3.483	1/2+					78
77AS 79						3.559	1/2-, 3/2-	79
77AS 80						3.593	1/2+&3/2+, 5/2+	80

77AS 81		3.633	1/2+					81
77AS 82						3.676	1/2+&7/2+, 9/2+	82

77AS	83		3.742	1/2+					83
77AS	84					3.770	(3/2:9/2)+		84
77AS	85					3.835	1/2+&7/2,9/2+		85
77AS	86					3.856	(21/2-)		86
77AS	87					3.885	1/2+&1/2-,3/2-		87
77AS	88					3.960	1/2+&3/2+,5/2+		88
77AS	89		4.022	1/2+					89
77AS	90					4.102	3/2+,5/2+		90

77AS	91					4.192	(1/2:9/2)		91
77AS	92					4.325	1/2+&3/2+,5/2+		92
77AS	93					4.456	(25/2+)		93

S-p = 7.992 (0.002)-----
 S-n = 9.696 (0.002)-----
 S-2p = 20.034 (0.002)-----
 S-2n = 17.025 (0.002)-----
 S-alpha= 6.642 (0.002)-----

S+p = -10.399 (0.002)
 S+n = -6.972 (0.010)
 S+2p = -16.730 (0.002)
 S+2n = -15.862 (0.006)
 S+alpha = -6.486 (0.002)

gap p = -2.406 (0.002)
 gap n = 2.724 (0.010)
 gap 2p = 3.304 (0.003)
 gap 2n = 1.162 (0.006)
 gap alpha = 0.156 (0.003)