

^{208}At $Z = 85$ $N = 123$ adopted link ENSDF link

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

BE = 1624.805 (0.009) MeV

Qbeta+ = 4.999 (0.009) MeV

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

S-alpha=	-5.751	(0.013)	-----					
208AT 1	0.000	6+						1 1.63 H 3
208AT 2					0.024	(5)+		2
208AT 3					0.064	(4)+		3
208AT 4	0.072	7+						4
208AT 5					0.114	(3)+		5
208AT 6	0.148	5+						6
208AT 7					0.174	(2)+		7
208AT 8					0.208	(4,5)+		8
208AT 9					0.227	(4+,5,6+)		9
208AT 10					0.237	(4)+		10

208AT 11					0.284	(4+,5+)		11
208AT 12					0.335	(4+,5,6+)		12
208AT 13					0.425	(3)+		13
208AT 14					0.429			14
208AT 15					0.588	(4+,5,6+)		15
208AT 16					0.601	(2,3)+		16
208AT 17					0.682			17
208AT 18					0.734	(2,3)+		18
208AT 19	0.788	8+						19
208AT 20					0.853	(2,3,4)+		20

208AT 21	0.904	9+						21
208AT 22					0.904			22
208AT 23			1.090	10-				23 47.8 NS 10
208AT 24	1.256	10+						24
208AT 25	1.300	11+						25
208AT 26	1.376	12+						26
208AT 27					1.526	(13)+		27
208AT 28					1.540			28
208AT 29			1.545	11-				29
208AT 30			1.649	12-				30

208AT 31	1.804	13+						31
208AT 32					1.827			32
208AT 33					1.979			33
208AT 34					2.194			34
208AT 35					2.227			35
208AT 36			2.269	13-				36

208AT 37					2.270				37
208AT 38			2.276	16-					38 1.5 US 2
208AT 39						2.372			39
208AT 40						2.480			40

208AT 41						2.577			41
S-p	=	2.613	(0.011)	-----					
208AT 42						2.717			42
208AT 43			2.745	17-					43
208AT 44						2.769			44
208AT 45			2.771	14-					45
208AT 46						2.802	(15,16)		46
208AT 47			2.830	17-					47
208AT 48						2.936			48
208AT 49						3.123			49
208AT 50						3.269			50

208AT 51						3.284			51
208AT 52						3.308			52
208AT 53						3.316			53
208AT 54						3.333			54
208AT 55						3.460			55
208AT 56						3.479			56
208AT 57						3.547			57
208AT 58						3.867			58
208AT 59						4.367			59

S-p = 2.613 (0.011)-----
S-n = 7.314 (0.015)-----
S-2p = 7.020 (0.012)-----
S-2n = 16.173 (0.016)-----
S-alpha= -5.751 (0.013)-----

S+p = -3.760 (0.013)
S+n = -8.485 (0.010)
S+2p = -5.452 (0.016)
S+2n = -15.645 (0.012)
S+alpha = 6.529 (0.013)

gap p = -1.147 (0.017)
gap n = -1.172 (0.018)
gap 2p = 1.568 (0.020)
gap 2n = 0.528 (0.020)
gap alpha = 0.778 (0.018)