

^{148}Eu $Z = 63$ $N = 85$ adopted link ENSDF link

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

BE = 1221.565 (0.010) MeV

Qbeta+ = 3.039 (0.010) MeV

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

S-alpha=	-2.694 (0.010)		-----					
148EU 1				0.000	5-			1 54.5 D 5
148EU 2				0.233	6-			2
148EU 3				0.312	6-			3
148EU 4				0.518	7-			4
148EU 5		0.708	7+					5
148EU 6		0.720	9+					6 162 NS 8
148EU 7		0.729	8+					7
148EU 8		0.811	8+					8
148EU 9		1.173	9+					9
148EU 10		1.266	10+					10

148EU 11		1.413	11+					11
148EU 12		1.478	10+					12
148EU 13					1.609	10-		13
148EU 14					1.670	11-		14
148EU 15					1.841	12-		15
148EU 16							1.955 (10)	16
148EU 17		1.992	12+					17
148EU 18		2.141	13+					18
148EU 19							2.203 (11)	19
148EU 20					2.351	13-		20

148EU 21		2.540	14+					21
148EU 22					2.546	14-		22
148EU 23		2.599	13+					23
148EU 24		2.878	14+					24
148EU 25		2.898	16+					25
148EU 26		2.975	15+					26
148EU 27					3.047	15-		27
148EU 28					3.205	16-		28
148EU 29							3.306 (15)	29
148EU 30					3.653	18-		30

148EU 31							3.712 (16)	31
148EU 32							3.819 (17)	32
148EU 33		3.846	17+					33
148EU 34					4.008	19-		34
148EU 35							4.067 (18)	35
148EU 36					4.087	20-		36

148EU	37		4.201	18+							37
148EU	38							4.284	(18)		38
S-p	=		4.320	(0.010)	-----						
148EU	39					4.336	21-				39
148EU	40							4.394	(18)		40

148EU	41		4.425	18+							41
148EU	42		4.651	19+							42
148EU	43		4.750	20+							43
148EU	44		5.017	20+							44
148EU	45							5.125	(21)		45
148EU	46		5.180	21+							46
148EU	47					5.207	21-				47
148EU	48		5.216	22+							48
148EU	49					5.302	21-				49
148EU	50					5.366	21-				50

148EU	51					5.390	22-				51
148EU	52					5.519	22-				52
148EU	53					5.794	23-				53
148EU	54					5.943	23-				54
148EU	55					6.073	23-				55
148EU	56					6.100	24-				56
148EU	57		6.306	24+							57
148EU	58							6.331			58
148EU	59		6.385	24+							59
148EU	60					6.436	25-				60

148EU	61					6.703	26-				61
S-n	=		6.824	(0.010)	-----						
148EU	62							7.028	27(-)		62
148EU	63							7.497	(27)		63
148EU	64							7.527	28(-)		64
148EU	65							7.591	28(-)		65
148EU	66							7.853	(29)		66
148EU	67							8.171			67
148EU	68							8.518			68
148EU	69							8.632	(29)		69
148EU	70							9.246	(31)		70

148EU	71							9.624			71

S-p	=		4.320	(0.010)	-----						
S-n	=		6.824	(0.010)	-----						
S-2p	=		11.421	(0.011)	-----						
S-2n	=		15.323	(0.012)	-----						
S-alpha	=		-2.694	(0.010)	-----						

S+p	=		-6.119	(0.010)	-----						

S+n = -8.215 (0.011)
S+2p = -9.386 (0.012)
S+2n = -14.638 (0.012)
S+alpha = 3.155 (0.041)

gap p = -1.798 (0.015)
gap n = -1.391 (0.015)
gap 2p = 2.034 (0.016)
gap 2n = 0.685 (0.017)
gap alpha = 0.461 (0.043)