

^{141}Eu $Z = 63$ $N = 78$ adopted link ENSDF link

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

BE = 1158.694 (0.013) MeV

Qbeta+ = 6.008 (0.015) MeV

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

S-alpha=	-1.722	(0.018)	-----		
141EU 1	0.000	5/2+			1 40.7 S 7
141EU 2			0.096	11/2-	2 2.7 S 3
141EU 3				0.216	1/2+,3/2+ 3
141EU 4				0.320	4
141EU 5				0.336	1/2+,3/2+ 5
141EU 6				0.448	6
141EU 7				0.458	(9/2+) 7
141EU 8				0.509	1/2+,3/2+ 8
141EU 9				0.526	1/2+,3/2+ 9
141EU 10			0.623	15/2-	10

141EU 11				0.657	11
141EU 12			0.672	13/2-	12
141EU 13				0.749	13
141EU 14				0.837	14
141EU 15				0.870	15
141EU 16				0.923	16
141EU 17				0.968	17
141EU 18				1.047	18
141EU 19				1.073	19
141EU 20				1.155	15/2(+) 20

141EU 21				1.309	(17/2-) 21
141EU 22			1.345	19/2-	22
141EU 23				1.409	1/2+,3/2+ 23
141EU 24				1.606	(17/2) 24
141EU 25				1.636	15/2(+) 25

S-p	=	1.759	(0.018)	-----	
141EU 26				1.796	26
141EU 27				1.821	27
141EU 28				1.903	17/2(+) 28
141EU 29				2.020	29
141EU 30				2.031	19/2(+) 30

141EU 31				2.117	(21/2-) 31
141EU 32			2.177	23/2-	32
141EU 33				2.229	21/2(+) 33
141EU 34				2.441	23/2(+) 34
141EU 35				2.597	25/2(+) 35

141EU 36				2.750	(25/2+)	36		
141EU 37				2.848	27/2(+)	37		
141EU 38				3.009	(25/2-)	38		
141EU 39		3.024	27/2-			39		
141EU 40		3.076	27/2-			40		

141EU 41		3.163	27/2-			41		
141EU 42				3.183	(29/2+)	42		
141EU 43		3.418	29/2-			43	0.76 PS +28-21	
141EU 44				3.446		44		
141EU 45				3.590	(31/2+)	45		
141EU 46		3.597	31/2-			46		
141EU 47		3.684	31/2-			47	1.7 PS +7-3	
141EU 48				3.857		48		
141EU 49		3.935	31/2-			49		
141EU 50				4.039	(33/2+)	50		

141EU 51		4.156	33/2-			51	0.76 PS +28-21	
141EU 52		4.369	35/2-			52		
141EU 53				4.417	(35/2+)	53		
141EU 54				4.563	(33/2+)	54		
141EU 55				4.583		55		
141EU 56				4.650	(35/2)	56		
141EU 57				4.766		57		
141EU 58				4.847	(35/2-)	58		
141EU 59				4.935	(37/2+)	59		
141EU 60				5.021	(37/2-)	60		

141EU 61				5.192	(39/2-)	61		
141EU 62		5.390	39/2-			62		
141EU 63				5.392		63		
141EU 64				5.400		64		
141EU 65				5.641		65		
141EU 66				5.658	(41/2-)	66	0.38 PS +17-14	
141EU 67				5.676		67		
141EU 68				5.976		68		
141EU 69				5.994	(43/2-)	69	0.55 PS 14	
141EU 70				6.325		70		

141EU 71				6.432	(43/2-)	71		
141EU 72				6.622	(45/2-)	72	0.20 PS +14-10	
141EU 73				6.727		73		

S-2p	=	7.003 (0.019)	-----					
141EU 74				7.048	(47/2-)	74		
141EU 75				7.196		75		
141EU 76				7.639		76		
141EU 77				7.861	(51/2-)	77		
141EU 78				7.964		78		
141EU 79				8.112		79		
141EU 80				8.543		80		

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141EU 81 | | | 9.035 | 81
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S-p    =  1.759 ( 0.018)-----
S-n    = 11.011 ( 0.053)-----
S-2p   =  7.003 ( 0.019)-----
S-2n   = 20.670 ( 0.018)-----
S-alpha= -1.722 ( 0.018)-----

S+p    = -4.323 ( 0.031)
S+n    = -9.455 ( 0.033)
S+2p   = -5.072 ( 0.053)
S+2n   = -20.458 ( 0.017)
S+alpha =  1.101 ( 0.112)

gap p   = -2.564 ( 0.035)
gap n   =  1.556 ( 0.062)
gap 2p  =  1.931 ( 0.056)
gap 2n  =  0.212 ( 0.025)
gap alpha = -0.621 ( 0.113)

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