

$^{113}\text{I}$        $Z = 53$        $N = 60$       adopted link    ENSDF link

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

BE      =      941.714 ( 0.008) MeV

Qbeta+ =      7.228 ( 0.029) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-2.707	( 0.010)	-----		
113I	1   0.000	5/2+			1 6.6 S 2
113I	2   0.064	7/2+			2
113I	3   0.629	9/2+			3
113I	4   0.754	11/2+			4
113I	5   0.838	9/2+			5
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S-p	= 0.841	( 0.012)	-----		
113I	6   0.909	9/2+			6
113I	7		1.018	11/2-	7 159 PS 36
113I	8   1.269	11/2+			8
113I	9		1.549	15/2-	9 5.0 PS 3
113I	10   1.614	13/2+			10
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113I	11   1.617	15/2+			11
113I	12   1.987	15/2+			12
113I	13		2.186	19/2-	13 1.61 PS 17
113I	14   2.359	17/2+			14
113I	15   2.685	19/2+			15
113I	16   2.731	19/2+			16
113I	17		2.870	23/2-	17 1.86 PS 30
113I	18		3.036	23/2-	18
113I	19   3.106	21/2+			19
113I	20		3.307	23/2-	20
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113I	21   3.481	23/2+			21
113I	22   3.569	23/2+			22
113I	23		3.696	27/2-	23 0.67 PS 25
113I	24		3.741	27/2-	24
113I	25   3.767	23/2+			25
113I	26   3.792	23/2+			26
113I	27   3.861	25/2+			27
113I	28		4.113	27/2-	28
113I	29   4.128	25/2+			29
113I	30   4.236	27/2+			30
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113I	31   4.396	27/2+			31
113I	32		4.497	31/2-	32 1.1 PS 3
113I	33		4.630	31/2-	33
113I	34   4.630	29/2+			34
113I	35   4.799	29/2+			35

S-2p	=	4.861	(	0.012)	-----			
113I	36		5.015	31/2+				36
113I	37		5.082	31/2+				37
113I	38				5.212	35/2-		38
113I	39				5.364	35/2-		39
113I	40		5.424	33/2+				40
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113I	41		5.535	33/2+				41
113I	42		5.839	35/2+				42
113I	43		5.846	35/2+				43
113I	44				5.947	39/2-		44
113I	45				6.266	39/2-		45
113I	46		6.278	37/2+				46
113I	47		6.354	37/2+				47
113I	48		6.688	39/2+				48
113I	49				6.712	43/2-		49
113I	50		6.741	39/2+				50
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113I	51		7.215	41/2+				51
113I	52		7.247	41/2+				52
113I	53				7.249	43/2-		53
113I	54		7.610	43/2+				54
113I	55				7.681	47/2-		55
113I	56		7.700	43/2+				56
113I	57		8.198	45/2+				57
113I	58		8.214	45/2+				58
113I	59				8.296	47/2-		59
113I	60				8.348	47/2-		60
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113I	61				8.586	51/2-		61
113I	62		8.614	47/2+				62
113I	63		8.739	47/2+				63
113I	64		9.230	49/2+				64
113I	65		9.280	49/2+				65
113I	66				9.497	51/2-		66
113I	67				9.611	55/2-		67
113I	68		9.687	51/2+				68

S-p = 0.841 ( 0.012)-----  
 S-n = 12.128 ( 0.013)-----  
 S-2p = 4.861 ( 0.012)-----  
 S-2n = 22.308 ( 0.009)-----  
 S-alpha= -2.707 ( 0.010)-----

S+p = -3.255 ( 0.014)  
 S+n = -9.591 ( 0.022)  
 S+2p = -3.126 ( 0.115)  
 S+2n = -21.361 ( 0.030)  
 S+alpha = 2.201 ( 0.063)

gap p = -2.414 ( 0.018)  
gap n = 2.537 ( 0.025)  
gap 2p = 1.735 ( 0.116)  
gap 2n = 0.947 ( 0.031)  
gap alpha = -0.505 ( 0.064)