

$^{137}\text{Pm}$        $Z = 61$        $N = 76$       adopted link      ENSDF link

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

BE = 1132.120 ( 0.013) MeV

Qbeta+ = 5.511 ( 0.018) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-1.440	( 0.018)	-----		
137PM 1			0.000	11/2-	1 2.4 M 1
137PM 2				0.164 (7/2)-	2
137PM 3			0.338	15/2-	3 34.0 PS 21
137PM 4				0.344	4
137PM 5				0.380 (9/2)-	5
137PM 6				0.559	6
137PM 7				0.695	7
137PM 8				0.789 (7/2,9/2,11/2)-	8
137PM 9			0.976	19/2-	9 8.0 PS 10
137PM 10				0.977	10
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137PM 11				1.057 (15/2+)	11
137PM 12				1.508 (17/2+)	12
137PM 13				1.791 (19/2+)	13
137PM 14				1.812 (19/2+)	14 2.6 PS 5
137PM 15			1.832	23/2-	15 1.04 PS 21
137PM 16				1.992	16
137PM 17				2.088 (21/2+)	17 3.3 PS 6
S-p =	2.162	( 0.018)	-----		
137PM 18				2.271 (21/2+)	18
137PM 19				2.287 (23/2+)	19 13.9 PS 26
137PM 20				2.492 (25/2+)	20 5.8 PS 8
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137PM 21				2.712 (23/2+)	21
137PM 22			2.799	27/2-	22 1.4 PS LT
137PM 23				2.819 (27/2+)	23 7.4 PS 10
137PM 24				3.055 (29/2+)	24 6.6 PS 8
137PM 25				3.084	25
137PM 26				3.234 (25/2+)	26
137PM 27				3.544 (31/2+)	27 1.4 PS LT
137PM 28			3.697	31/2-	28
137PM 29				3.733 (27/2+)	29
137PM 30				3.844 (31/2-)	30
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137PM 31				3.859 (33/2+)	31 1.4 PS LT
137PM 32				4.222 (29/2+)	32
137PM 33				4.430 (35/2+)	33
137PM 34			4.457	35/2-	34
137PM 35				4.772 (35/2-)	35

137PM	36				4.842	(31/2+)	36
137PM	37				4.906	(37/2+)	37
137PM	38		5.337		39/2-		38
137PM	39		6.284		43/2-		39

S-p = 2.162 ( 0.018)-----  
 S-n = 10.974 ( 0.070)-----  
 S-2p = 7.715 ( 0.018)-----  
 S-2n = 20.153 ( 0.084)-----  
 S-alpha= -1.440 ( 0.018)-----

S+p = -4.714 ( 0.018)  
 S+n = -8.913 ( 0.017)  
 S+2p = -5.903 ( 0.019)  
 S+2n = -19.571 ( 0.019)  
 S+alpha = 1.722 ( 0.018)

gap p = -2.551 ( 0.025)  
 gap n = 2.062 ( 0.072)  
 gap 2p = 1.812 ( 0.026)  
 gap 2n = 0.582 ( 0.086)  
 gap alpha = 0.282 ( 0.026)