

$^{207}\text{Po}$        $Z = 84$        $N = 123$       adopted link      ENSDF link

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

BE = 1622.191 ( 0.007) MeV

Qbeta+ = 2.909 ( 0.007) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-5.216 ( 0.009)				
207PO 1			0.000 5/2-		1 5.80 H 2
207PO 2			0.069 1/2-		2 205 NS 10
207PO 3			0.236 3/2-		3
207PO 4			0.393 3/2-		4
207PO 5			0.588 7/2-		5
207PO 6			0.686 5/2-		6
207PO 7			0.814 9/2-		7
207PO 8			0.907 7/2-		8
207PO 9	1.115	13/2+			9 49 US 4
207PO 10			1.172 7/2-		10
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207PO 11			1.226 5/2-		11
207PO 12			1.274 13/2-		12
207PO 13				1.282 (7/2,9/2,11/2)-	13
207PO 14				1.332	14
207PO 15			1.383 19/2-		15 2.79 S 8
207PO 16			1.511 7/2-		16
207PO 17				1.548 (7/2-,9/2-)	17
207PO 18			1.564 21/2-		18
207PO 19	1.582	9/2+			19
207PO 20				1.677 7/2,9/2-	20
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207PO 21	1.691	17/2+			21
207PO 22				1.763 (5/2-,7/2-)	22
207PO 23	1.773	11/2+			23
207PO 24				1.782 (7/2,9/2)-	24
207PO 25				1.909 (9/2+)	25
207PO 26				2.016	26
207PO 27				2.099 3/2-,5/2-,7/2-	27
207PO 28	2.230	9/2+			28
207PO 29				2.294 (9/2+)	29
207PO 30	2.303	9/2+			30
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207PO 31	2.313	21/2+			31
207PO 32	2.380	25/2+			32 43.0 NS 3
207PO 33				2.393	33
207PO 34				2.414 (9/2+,11/2-)	34
207PO 35				2.455 (9/2+,11/2-)	35
207PO 36				2.583 (5/2-)	36

207P0	37					2.641	(3/2-,5/2-)	37
207P0	38					2.828	9/2+,11/2+	38
207P0	39					2.846	(9/2+,11/2+)	39
207P0	40					2.860	9/2+,11/2	40
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207P0	41					2.871	(7/2-,9/2-,11/2	41-)
207P0	42		2.879	27/2+				42
207P0	43					2.888	(9/2)	43
207P0	44					2.958	(7/2-,9/2-)	44
207P0	45					2.962		45
207P0	46		2.964	27/2+				46
207P0	47					3.037	(5/2+)	47
207P0	48					3.080		48
207P0	49					3.096	(7/2+,9/2+)	49
207P0	50		3.137	29/2+				50
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207P0	51					3.179	(9/2+)	51
207P0	52					3.246	(5/2+,7/2)	52
207P0	53					3.273	(7/2,9/2)	53
207P0	54					3.301	(9/2)	54
207P0	55					3.380		55
207P0	56		3.381	31/2+				56
207P0	57					3.443		57
207P0	58					3.450	(7/2-,9/2-)	58
207P0	59					3.458	(9/2)	59
207P0	60			3.599	29/2-			60
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207P0	61			3.602	31/2-			61
207P0	62			3.801	33/2-			62
207P0	63				3.920			63
207P0	64			4.346	35/2-			64

S-p = 4.406 ( 0.010)-----  
S-n = 7.028 ( 0.008)-----  
S-2p = 7.953 ( 0.007)-----  
S-2n = 15.767 ( 0.012)-----  
S-alpha= -5.216 ( 0.009)-----

S+p = -2.613 ( 0.011)  
S+n = -8.395 ( 0.007)  
S+2p = -6.373 ( 0.012)  
S+2n = -15.363 ( 0.007)  
S+alpha = 5.965 ( 0.010)

gap p = 1.793 ( 0.015)  
gap n = -1.366 ( 0.010)  
gap 2p = 1.580 ( 0.014)  
gap 2n = 0.404 ( 0.014)  
gap alpha = 0.750 ( 0.013)