

$^{240}\text{Am}$        $Z = 95$        $N = 145$       adopted link      ENSDF link

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

BE = 1811.283 ( 0.014) MeV

Qbeta+ = 1.385 ( 0.014) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-5.707	( 0.052)	-----		
240AM 1				0.000 (3-)	1 50.8 H 3
240AM 2				0.041 (4-)	2
240AM 3				0.053 (2-)	3
240AM 4				0.087 (3-)	4
240AM 5				0.096 (5-)	5
240AM 6				0.130 (4-)	6
240AM 7				0.158 (6-)	7
240AM 8				0.186 (5-)	8
240AM 9				0.213	9
240AM 10				0.233 (7-)	10
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240AM 11				0.252 (6-)	11
240AM 12				0.281	12
240AM 13				0.316 (8-)	13
240AM 14				0.329 (7-)	14
240AM 15				0.346 (1-)	15
240AM 16				0.398 (3-)&(5-)	16
240AM 17				0.423 (2-)	17
240AM 18				0.458 (6-)	18
240AM 19				0.474	19
240AM 20				0.498 (4-)&(5-)	20
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240AM 21				0.534 (7-)	21
240AM 22				0.551	22
240AM 23				0.616 (6-)&(8-)	23
240AM 24				0.640 (7-)	24
240AM 25				0.660	25
240AM 26				0.757	26
240AM 27				0.777	27
240AM 28				0.809	28
240AM 29				0.819	29
240AM 30				0.845	30
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240AM 31				0.856	31
240AM 32				0.877	32
240AM 33				0.898	33
240AM 34				0.917	34
240AM 35				0.932	35
240AM 36				0.956	36

240AM	37				0.973	(3+)	37
240AM	38				0.997		38
240AM	39				1.016	(2+)&(4+)	39
240AM	40				1.052	(3+)	40
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240AM	41				1.066		41
240AM	42				1.079		42
240AM	43				1.194		43
240AM	44				1.218		44
240AM	45				1.235		45
240AM	46				1.248		46
240AM	47				1.305		47
240AM	48				1.318		48
240AM	49				1.335		49
240AM	50				1.349		50
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240AM	51				1.372		51
240AM	52				1.386		52
240AM	53				1.407		53
240AM	54				1.437		54
240AM	55				1.495		55
240AM	56				1.515		56
240AM	57				1.545		57
240AM	58				3.000		58

0.94 MS 4

S-p = 4.367 ( 0.014)-----  
S-n = 5.952 ( 0.014)-----  
S-2p = 10.522 ( 0.014)-----  
S-2n = 13.054 ( 0.061)-----  
S-alpha= -5.707 ( 0.052)-----

S+p = -5.097 ( 0.014)  
S+n = -6.647 ( 0.014)  
S+2p = -8.315 ( 0.242)  
S+2n = -12.185 ( 0.014)  
S+alpha = 6.779 ( 0.020)

gap p = -0.730 ( 0.020)  
gap n = -0.696 ( 0.020)  
gap 2p = 2.208 ( 0.243)  
gap 2n = 0.869 ( 0.062)  
gap alpha = 1.072 ( 0.056)