

$^{235}\text{Np}$        $Z = 93$        $N = 142$       adopted link      ENSDF link

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

BE = 1782.958 ( 0.001) MeV

Qbeta+ = 0.124 ( 0.002) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-5.194	( 0.002)	-----		
235NP 1	0.000	5/2+			1 396.1 D 12
235NP 2				0.034 (7/2)+	2
235NP 3				0.049 (5/2)-	3 6.9 NS 3
235NP 4				0.079 (9/2+)	4
235NP 5				0.092 (7/2)-	5
235NP 6				0.133 (11/2)+	6
235NP 7				0.147 (9/2)-	7
235NP 8				0.206 (13/2)+	8
235NP 9				0.276 (15/2+)	9
235NP 10				0.352 (3/2-)	10
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235NP 11				0.360 (17/2+)	11
235NP 12				0.371 (1/2-)	12
235NP 13				0.408 (7/2-)	13
235NP 14				0.441 (5/2-)	14
235NP 15				0.463 (19/2+)	15
235NP 16				0.520 (11/2-)	16
235NP 17				0.560 (21/2+)	17
235NP 18				0.565 (3/2-)	18
235NP 19				0.602 (5/2-)	19
235NP 20				0.644 (7/2-)	20
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235NP 21				0.681	21
235NP 22				0.690 (23/2+)	22
235NP 23				0.700 (9/2-)	23
235NP 24				0.756 (3/2+,5/2,7/2)	24
235NP 25				0.761 (11/2-)	25
235NP 26				0.780 (3/2+,5/2,7/2)	26
235NP 27				0.806 (25/2+)	27
235NP 28				0.819 (5/2+,7/2)	28
235NP 29	0.834	5/2+			29
235NP 30				0.870	30
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235NP 31				0.922 (7/2-)	31
235NP 32				0.937 (5/2+,7/2)	32
235NP 33				0.945 (3/2+,5/2,7/2)	33
235NP 34				0.956 (27/2+)	34
235NP 35				0.962	35
235NP 36				0.978 (9/2-)	36

235NP 37						0.998		37
235NP 38						1.024		38
235NP 39						1.064	(9/2-)	39
235NP 40						1.089	(29/2+)	40
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235NP 41						1.117		41
235NP 42						1.160	(13/2+)	42
235NP 43						1.227		43
235NP 44						1.256	(31/2+)	44
235NP 45		1.260		5/2+				45
235NP 46						1.293		46
235NP 47						1.310		47
235NP 48						1.364		48
235NP 49						1.405	(33/2+)	49
235NP 50						1.510		50
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235NP 51						1.588	(35/2+)	51
235NP 52						1.607		52
235NP 53						1.675		53
235NP 54						1.696		54
235NP 55						1.752	(37/2+)	55
235NP 56		1.818		5/2+				56
235NP 57						1.845	(7/2-)	57
235NP 58						1.918		58
235NP 59						1.948	(39/2+)	59
235NP 60						2.050		60
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235NP 61						2.124	(41/2+)	61
235NP 62						2.336	(43/2+)	62
235NP 63						2.526	(45/2+)	63
235NP 64						2.751	(47/2+)	64
235NP 65						2.952	(49/2+)	65
235NP 66						3.191	(51/2+)	66
235NP 67						3.401	(53/2+)	67

S-p = 4.391 ( 0.002)-----  
S-n = 6.983 ( 0.009)-----  
S-2p = 11.024 ( 0.002)-----  
S-2n = 13.048 ( 0.051)-----  
S-alpha= -5.194 ( 0.002)-----

S+p = -5.431 ( 0.002)  
S+n = -5.736 ( 0.050)  
S+2p = -8.999 ( 0.001)  
S+2n = -12.314 ( 0.002)  
S+alpha = 5.922 ( 0.002)

gap p = -1.040 ( 0.003)  
gap n = 1.247 ( 0.051)

gap 2p = 2.026 ( 0.002)  
gap 2n = 0.734 ( 0.051)  
gap alpha = 0.729 ( 0.003)