

^{16}N $Z = 7$ $N = 9$ adopted link ENSDF link

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

BE = 117.981 (0.002) MeV

Qbeta- = 10.421 (0.002) MeV

	Energy T	J+	J-	J-other	T1/2
16N	1		0.000 1 2-		1 7.13 S 2
16N	2		0.120 0-		2 5.25 US 6
16N	3		0.298 3-		3 91.3 PS 13
16N	4		0.397 1-		4 3.90 PS 4
S-n	=	2.489 (0.002)			
16N	5			3.353 (1+)	5 15 KEV 5
16N	6	3.523 2+			6 3 KEV
16N	7	3.963 3+			7 2 KEV LE
16N	8	4.320 1+			8 20 KEV 5
16N	9		4.391 1-		9 82 KEV 20
16N	10		4.760 1-		10 250 KEV 50
16N	11	4.783 2+			11 59 KEV 8
16N	12		5.054 2-		12 19 KEV 6
16N	13			5.129 GE 2	13 11 KEV LE
16N	14			5.150 1 (3)-	14 11 KEV LE
16N	15	5.230 3+			15 4 KEV LE
16N	16		5.250 2-		16 320 KEV 80
16N	17			5.318 (0-,1+)	17 260 KEV
16N	18	5.522 3+			18 11 KEV LE
16N	19			5.732 (5+)	19 11 KEV LE
16N	20		6.003 1-		20 270 KEV 30
16N	21			6.171 1 (4-)	21 11 KEV LE
16N	22			6.374 (3-)	22 30 KEV 6
16N	23			6.426	23 300 KEV 30
16N	24	6.505 1+			24 34 KEV 6
16N	25			6.608 (4)	25 11 KEV LE
16N	26			6.840 GE 2	26 140 KEV GT
16N	27			6.845	27 11 KEV LE
16N	28	7.020 1+			28 22 KEV 5
16N	29			7.134	29 11 KEV LE
16N	30			7.250 GE 2	30 17 KEV 5
16N	31			7.572 GE 3	31 11 KEV LE
16N	32			7.637 (3,4,5)+	32 11 KEV LE
16N	33			7.674	33 11 KEV LE
16N	34			7.877 GE 4	34 100 KEV 15
16N	35			8.048	35 85 KEV 15
16N	36			8.199 (3,2)+	36 28 KEV 8

16N	37				8.282		37	24 KEV	8
16N	38				8.365	GE 1	38	18 KEV	8
16N	39				8.490	GE 1	39	50 KEV	LE
16N	40				8.720	GE 1	40	40 KEV	

16N	41				8.819		41	50 KEV	LE
16N	42				9.035		42	50 KEV	LE
16N	43				9.160	GE 2	43	100 KEV	
16N	44				9.340		44	50 KEV	LE
16N	45				9.459	GE 2	45	100 KEV	
16N	46				9.760	1	46	15 KEV	8
16N	47				9.813	1	47		
16N	48		9.928	2	0+		48	12 KEV	LT

S-p = 11.478 (0.002)-----
 S-n = 2.489 (0.002)-----
 S-2p = 32.558 (0.021)-----
 S-2n = 13.322 (0.002)-----
 S-alpha= 10.110 (0.003)-----

S+p = -13.782 (0.002)
 S+n = -5.885 (0.015)
 S+2p = -19.389 (0.002)
 S+2n = -8.713 (0.019)
 S+alpha = -8.126 (0.002)

gap p = -2.303 (0.003)
 gap n = -3.396 (0.015)
 gap 2p = 13.169 (0.021)
 gap 2n = 4.609 (0.019)
 gap alpha = 1.984 (0.004)