

$^{21}\text{Ne}$        $Z = 10$        $N = 11$       adopted link      ENSDF link

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

BE = 167.406 ( 0.000) MeV

	Energy T	J+	J-	J-other	T1/2
21NE 1	0.000	3/2+			1 STABLE
21NE 2	0.351	5/2+			2 7.13 PS 14
21NE 3	1.746	7/2+			3 52 FS 4
21NE 4			2.789	1/2-	4 81 PS 5
21NE 5	2.794	1/2+			5 5.5 FS 7
21NE 6	2.867	9/2+			6 40 FS 4
21NE 7			3.664	3/2-	7 65 FS 6
21NE 8	3.736	5/2+			8 10 FS LT
21NE 9			3.884	5/2-	9 27 FS 3
21NE 10	4.433	11/2+			10 22 FS 3
21NE 11	4.526	5/2+			11 7 FS LT
21NE 12	4.685	3/2+			12 11 FS 3
21NE 13			4.725	3/2-	13 7 FS 3
21NE 14				4.867	14
21NE 15			5.334	7/2-	15 7 FS LT
21NE 16				5.431 (7/2+)	16 8 FS LT
21NE 17				5.525	17 69 FS 21
21NE 18	5.549	3/2+			18 28 FS 9
21NE 19	5.631	7/2+			19 7 FS LT
21NE 20			5.690	1/2-	20 5.5 FS 24
21NE 21				5.773 (3/2,5/2)	21 28 FS 9
21NE 22			5.818	7/2-	22 24 FS LT
21NE 23	5.822	3/2+			23 55 FS 12
21NE 24			5.993	3/2-	24 7 FS LT
21NE 25			6.033	9/2-	25 19 FS 2
21NE 26				6.174 (5/2+)	26 9 FS 4
21NE 27				6.263 (7/2+)	27 14 FS LT
21NE 28	6.267	9/2+			28 24 FS 12
21NE 29	6.271	9/2+			29
21NE 30				6.412	30
21NE 31				6.448 (13/2+)	31 14 FS LT
21NE 32				6.543	32
21NE 33				6.554 9/2	33 31 FS 21
21NE 34				6.609	34 7 FS LT
21NE 35				6.641 9/2(-)	35 15 FS 3
21NE 36				6.748	36 10 FS 3
21NE 37				6.761	37
S-n	6.761 ( 0.000)				

21NE 38						6.853				38
21NE 39				6.901		1/2-				39 3.7 EV 2
21NE 40		7.009		7/2+						40 12 FS LT
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21NE 41						7.023		(7/2+)		41 13 FS 3
21NE 42						7.044		(9/2)+		42
21NE 43						7.109				43
21NE 44						7.154				44
21NE 45		7.211		1/2+						45 107.8 KEV 11
21NE 46						7.226				46
21NE 47						7.290				47
21NE 48						7.320		(1/2+)		48
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S-alpha= 7.348 ( 0.000)-----										
21NE 49						7.363		(7/2,9/2+)		49 8 FS LT
21NE 50						7.371		(7/2-)		50
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21NE 51						7.420		(11/2-)		51
21NE 52						7.465		(1/2,3/2)-		52
21NE 53						7.547				53
21NE 54						7.600				54
21NE 55				7.628		3/2-				55 14 KEV 4
21NE 56						7.648		(7/2+)		56 10 FS LT
21NE 57						7.740				57
21NE 58						7.810				58
21NE 59						7.961		(11/2-)		59
21NE 60				7.980		3/2-				60 6 KEV 2
-----										
21NE 61						7.982		(7/2,11/2)+		61
21NE 62				8.009		1/2-				62 32 KEV 6
21NE 63		8.069		3/2+						63 8 KEV 3
21NE 64		8.146		3/2+						64
21NE 65						8.155		(9/2)+		65 21 FS LT
21NE 66		8.160		5/2+						66
21NE 67				8.189		3/2-				67
21NE 68						8.224				68
21NE 69						8.241		(11/2)+		69 10 FS LT
21NE 70				8.264		5/2-				70
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21NE 71				8.292		3/2-				71
21NE 72				8.304		3/2-				72 27 KEV 5
21NE 73		8.361		3/2+						73 10 KEV 3
21NE 74						8.414				74
21NE 75				8.438		3/2-				75
21NE 76				8.470		3/2-				76
21NE 77				8.518		5/2-				77 6 KEV
21NE 78						8.522		(3/2-)		78 6 KEV
21NE 79		8.599		3/2+						79 38 KEV 7
21NE 80				8.658		9/2-				80
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21NE 81				8.664		3/2-				81

21NE 82				8.681	3/2-				82	54 KEV	6
21NE 83		8.774	5/2+						83		
21NE 84					8.782	3/2-			84	50 KEV	6
21NE 85		8.791	1/2+						85		
21NE 86							8.801		86	5 KEV	LT
21NE 87		8.839	3/2+						87		
21NE 88							8.846		88	10 KEV	
21NE 89		8.861	3/2 5/2+						89	2.5 KEV	4
21NE 90					8.899	3/2-			90		
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21NE 91		8.929	5/2+						91	5 KEV	
21NE 92							8.955		92		
21NE 93		8.981	3/2+						93		
21NE 94							8.993		94	2.5 KEV	
21NE 95							9.061		95		
21NE 96		9.099	5/2+						96		
21NE 97		9.138	1/2+						97		
21NE 98		9.151	3/2 1/2+						98	7.6 KEV	11
21NE 99							9.188		99		
21NE 100					9.203	3/2-			100	10 KEV	
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21NE 101		9.232	5/2+						101		
21NE 102							9.251		102		
21NE 103							9.267		103	15 KEV	
21NE 104							9.299		104	10 KEV	
21NE 105							9.368		105	30 KEV	
21NE 106							9.401	(13/2-)	106		
21NE 107							9.457		107	35 KEV	
21NE 108							9.509		108	45 KEV	5
21NE 109							9.516		109	20 KEV	
21NE 110							9.647		110	30 KEV	
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21NE 111							9.673		111	5 KEV	
21NE 112							9.696		112	10 KEV	
21NE 113							9.700	(13/2+)	113		
21NE 114							9.724		114	10 KEV	
21NE 115							9.796		115	10 KEV	
21NE 116					9.834	3/2-			116	50 KEV	
21NE 117							9.857	(15/2+)	117		
21NE 118					9.894	3/2-			118	48 KEV	6
21NE 119							9.932		119	15 KEV	
21NE 120							9.941		120		
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21NE 121							9.962	3/2 (1/2,3/2)-	121		

S-p = 13.003 ( 0.000)-----  
S-n = 6.761 ( 0.000)-----  
S-2p = 23.643 ( 0.003)-----  
S-2n = 23.626 ( 0.000)-----

S-alpha= 7.348 ( 0.000)-----

S+p = -6.739 ( 0.000)

S+n = -10.364 ( 0.000)

S+2p = -14.320 ( 0.000)

S+2n = -15.565 ( 0.000)

S+alpha = -9.886 ( 0.000)

gap p = 6.265 ( 0.000)

gap n = -3.603 ( 0.000)

gap 2p = 9.323 ( 0.003)

gap 2n = 8.062 ( 0.000)

gap alpha = -2.538 ( 0.000)