

$^{32}\text{S}$        $Z = 16$        $N = 16$       adopted link      ENSDF link

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

BE      =      271.780 ( 0.000) MeV

	Energy T	J+	J-	J-other	T1/2
32S 1	0.000	0+			1 STABLE
32S 2	2.231	2+			2 169 FS 11
32S 3	3.778	0+			3 0.89 PS 9
32S 4	4.282	2+			4 42 FS 4
32S 5	4.459	4+			5 124 FS 27
32S 6	4.695	1+			6 286 FS 74
32S 7			5.006 3-		7 0.52 PS 3
32S 8	5.413	3+			8 148 FS 19
32S 9	5.549	2+			9 57 FS 8
32S 10			5.797 1-		10 5.6 FS 9
32S 11			6.223 2-		11 66 FS 12
32S 12	6.411	4+			12 24.3 FS 35
32S 13				6.582 (2+,3-)	13
32S 14			6.622 4-		14 0.36 PS 6
32S 15	6.666	2+			15 40 FS 10
32S 16			6.762 5-		16 260 FS 35
32S 17	6.852	4+			17 66 FS 17
S-alpha=	6.948 ( 0.000)				
32S 18	7.001	1+			18 1.5 FS 5
32S 19	7.115	2+			19 1.73 FS 35
32S 20	7.190	1+			20 8.0 FS 21
32S 21				7.350 3(+)	21
32S 22				7.367	22
32S 23			7.434 1-		23 7.7 FS 10
32S 24	7.484	2+			24 4.9 FS 12
32S 25	7.536	0+			25 2.6 FS 7
32S 26	7.567	5+			26 150 FS 32
32S 27				7.637 1	27
32S 28				7.648	28
32S 29			7.701 3-		29 66 FS 19
32S 30			7.883 4-		30
32S 31	7.921	1+			31
32S 32			7.950 4-		32 146 FS 35
32S 33			7.975 4-		33 21 FS LT
32S 34	8.125	1+			34 0.144 FS 21
32S 35				8.191 4	35
32S 36				8.270 3-,5-	36 60 FS LT
32S 37			8.296 3-		37

32S	38	8.336	2+					38	
32S	39					8.346	4+,6+	39 28 FS LT	
32S	40					8.380		40	
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32S	41					8.407	2	41	
32S	42			8.499	1-			42 1.30 FS 24	
32S	43					8.672		43	
32S	44					8.684		44	
32S	45					8.688		45	
32S	46	8.729	3+					46	
32S	47					8.737		47	
32S	48					8.742		48	
32S	49					8.746	3	49	
32S	50					8.751		50	
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32S	51					8.783		51	
32S	52					8.797		52	
32S	53					8.810		53	
32S	54					8.839		54	
32S	55	8.861	2+					55	
S-p	=	8.864	( 0.000)	-----					
32S	56					8.895		56	
32S	57					8.906		57	
32S	58					8.922		58	
32S	59					8.942		59	
32S	60					8.945		60	
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32S	61					8.954		61	
32S	62					8.977		62	
32S	63					8.985		63	
32S	64					9.007		64	
32S	65					9.009		65	
32S	66					9.013		66	
32S	67			9.024	4-			67 0.27 PS 6	
32S	68					9.031		68	
32S	69					9.042		69	
32S	70					9.055		70	
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32S	71			9.059	1-			71	
32S	72					9.065		72 14 FS LT	
32S	73					9.088		73	
32S	74					9.091		74	
32S	75					9.140		75	
32S	76					9.159		76	
32S	77	9.170	3+					77	
32S	78	9.196	2+					78	
32S	79					9.201		79	
32S	80	9.208	1+					80 4.2 FS 14	
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32S	81					9.211		81	

32S	82				9.211		82		
32S	83			9.235	1-		83	60 FS	LT
32S	84		9.253	2+			84		
32S	85				9.268		85		
32S	86				9.272		86		
32S	87				9.280		87		1
32S	88				9.288		88		
32S	89		9.289	1+			89		
32S	90				9.297		90		
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32S	91				9.309		91		
32S	92				9.317		92		
32S	93				9.345		93		
32S	94				9.358		94		
32S	95				9.361		95		
32S	96		9.388	2+			96		
32S	97				9.395		97		
32S	98				9.397		98		
32S	99				9.402		99		
32S	100				9.436		100		
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32S	101				9.451		101		
32S	102				9.463		102	70 FS	LT
32S	103		9.466	2+			103	49 FS	LT
32S	104				9.481		104		
32S	105			9.486	1-		105	8.2 EV	25
32S	106				9.500		106		
32S	107				9.516		107		
32S	108				9.524		108		
32S	109				9.534		109		
32S	110				9.535		110		
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32S	111				9.561		111		
32S	112				9.562		112		1-,2-
32S	113				9.597		113		
32S	114				9.619		114		
32S	115				9.635		115	0.09 PS	6
32S	116			9.650	6-		116		
32S	117		9.650	2+			117		
32S	118				9.655		118		
32S	119				9.657		119		
32S	120		9.660	1+			120	2.4 EV	7
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32S	121				9.665		121		
32S	122				9.672		122		
32S	123				9.675		123		
32S	124				9.693		124		
32S	125				9.704		125	2.2 KEV	
32S	126		9.712	2+			126	3.6 EV	
32S	127				9.724		127		2,3,4

32S 128						9.728				128
32S 129						9.731	1-,2-			129
32S 130						9.783	6			130 0.14 FS +13-11
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32S 131						9.809				131 1.0 KEV
32S 132						9.817	3-,4-			132
32S 133						9.827				133
32S 134				9.848	1-					134 0.100 KEV 10
32S 135						9.883				135
32S 136						9.887	2+,3+			136 0.010 KEV 5
32S 137		9.919	2+							137 0.010 KEV 5
32S 138						9.935	1			138 1.0 KEV
32S 139				9.947	1-					139 0.150 KEV 15
32S 140						9.978	4			140
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32S 141						9.978	3			141
32S 142						9.983	2,0+			142 0.100 KEV 10
32S 143						9.988	3-,4-			143 4 KEV AP
32S 144						9.997				144 4.7 KEV

S-p = 8.864 ( 0.000)-----  
S-n = 15.044 ( 0.000)-----  
S-2p = 16.160 ( 0.000)-----  
S-2n = 28.099 ( 0.000)-----  
S-alpha= 6.948 ( 0.000)-----

S+p = -2.277 ( 0.000)  
S+n = -8.642 ( 0.000)  
S+2p = -6.941 ( 0.000)  
S+2n = -20.059 ( 0.000)  
S+alpha = -6.641 ( 0.000)

gap p = 6.587 ( 0.000)  
gap n = 6.403 ( 0.000)  
gap 2p = 9.220 ( 0.000)  
gap 2n = 8.040 ( 0.000)  
gap alpha = 0.307 ( 0.000)