

^{31}Si $Z = 14$ $N = 17$ adopted link ENSDF link

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

BE = 262.207 (0.000) MeV

Qbeta- = 1.492 (0.000) MeV

	Energy T	J+	J-	J-other	T1/2
31SI 1	0.000	3/2+			1 157.24 M 20
31SI 2	0.752	1/2+			2 0.53 PS 12
31SI 3	1.695	5/2+			3 0.57 PS 15
31SI 4	2.317	3/2+			4 38 FS 17
31SI 5	2.788	5/2+			5 14 FS 14
31SI 6			3.133	7/2-	6 0.37 PS 8
31SI 7			3.533	3/2-	7 10 FS LT
31SI 8				3.874 (7/2+)	8
31SI 9				4.261 3/2+,5/2+	9
31SI 10			4.382	3/2-	10
31SI 11				4.690	11
31SI 12	4.719	1/2+			12
31SI 13				4.944	13
31SI 14				4.968	14
31SI 15				4.997	15
31SI 16				5.281 (1/2)-	16
31SI 17				5.311	17
31SI 18				5.443 5/2-,7/2-	18
31SI 19				5.451	19
31SI 20				5.594	20
31SI 21				5.600	21
31SI 22				5.611	22
31SI 23				5.656	23
31SI 24				5.677	24
31SI 25				5.730	25
31SI 26				5.791	26
31SI 27				5.818 (1/2+)	27
31SI 28				5.836	28
31SI 29				5.856	29
31SI 30				5.873 1/2-,3/2-	30
31SI 31				5.958 (1/2-,3/2,5/2+)	31
31SI 32				5.984 (3/2+,5/2+)	32
31SI 33				6.072 3/2+,5/2+	33
31SI 34				6.106 5/2-,7/2-	34
31SI 35				6.250 3/2+,5/2+	35
31SI 36				6.285	36
31SI 37				6.350	37

31SI 38				6.418	(5/2-,7/2-)	38
31SI 39				6.450		39
31SI 40				6.461	(3/2+,5/2+)	40

31SI 41				6.473		41
31SI 42				6.491		42
31SI 43				6.584	5/2-,7/2-	43
31SI 44		6.587	1/2+			44
S-n	=	6.587	(0.000)	-----		
31SI 45			6.592	1/2-		45 1.90 EV 7
31SI 46					6.602	46
31SI 47					6.636	47
31SI 48					6.649	48
31SI 49					6.662	49
31SI 50		6.765	1/2+			50 11.00 KEV 30

31SI 51				6.772	[3/2](+)	51
31SI 52				6.793		52
31SI 53				6.815	3/2+,5/2+	53
31SI 54				6.877		54
31SI 55			6.881	3/2-		55 0.260 KEV 20
31SI 56				6.887		56
31SI 57				6.916	3/2+,5/2+	57
31SI 58				6.954	3/2+,5/2+	58
31SI 59			6.987	1/2-		59 1.31 KEV 25
31SI 60				7.012	(1/2-,3/2-)	60

31SI 61				7.034		61
31SI 62				7.111		62
31SI 63				7.164	(3/2+,5/2+)	63
31SI 64				7.207		64
31SI 65				7.212	3/2+,5/2+	65
31SI 66				7.226		66
31SI 67				7.270	[3/2+,5/2+]	67
31SI 68			7.309	3/2-		68
31SI 69				7.359	[1/2-]	69 0.86 KEV 13
31SI 70				7.369	[1/2-]	70 0.52 KEV 10

31SI 71				7.373	[1/2-]	71 0.60 KEV 12
31SI 72			7.405	3/2-		72 20.8 KEV 8
31SI 73				7.409		73
31SI 74				7.438	3/2+,5/2+	74
31SI 75				7.484		75
31SI 76			7.536	1/2-		76 6.0 KEV 10
31SI 77				7.544		77
31SI 78				7.564	(3/2+,5/2,7/2-)	78
31SI 79				7.582		79
31SI 80				7.642	(3/2+,5/2,7/2-)	80

31SI 81				7.718		81

31SI 82		7.732	1/2+					82	7.50 KEV	50
31SI 83						7.766	3/2+,5/2+	83	5.00 KEV	50
31SI 84					7.822	1/2-		84	7.9 KEV	13
31SI 85						7.848	[3/2+,5/2+]	85	4.2 KEV	10
31SI 86						7.857	[3/2-]	86	5.0 KEV	16
31SI 87					7.883	1/2-		87	9.0 KEV	30
31SI 88					7.901	3/2-		88	34.4 KEV	34
31SI 89						7.905	5/2-,7/2-	89		
31SI 90					7.927	1/2-		90	5.8 KEV	20

31SI 91						7.944	[3/2+,5/2+]	91		
31SI 92						7.955	[3/2-]	92	5.40 KEV	12
31SI 93						7.991	5/2-,7/2-	93		
31SI 94						8.017	5/2-,7/2-	94		
31SI 95						8.035	5/2-,7/2-	95		
31SI 96						8.071	5/2-,7/2-	96		
31SI 97						8.116	5/2-,7/2-	97		
31SI 98						8.140	5/2-,7/2-	98		
31SI 99						8.165	5/2-,7/2-	99		
31SI 100						8.220		100		

31SI 101						8.240	(5/2-,7/2-)	101		
31SI 102						8.359	5/2-,7/2-	102		
31SI 103						8.389		103		
31SI 104						8.570	3/2+,5/2+	104		
31SI 105						8.605	3/2+,5/2+	105		
31SI 106						8.648		106		
31SI 107						8.710	(5/2-,7/2-)	107		
31SI 108						8.780	(3/2+,5/2+)	108		
31SI 109						8.830	(1/2-,3/2-)	109		
31SI 110						8.850		110		

31SI 111						8.926	(1/2-,3/2-)	111		
31SI 112						8.967	(1/2-,3/2-)	112		
31SI 113						9.217	(3/2+,5/2+)	113		
31SI 114						9.324		114		
31SI 115						9.380		115		

S-p = 14.374 (0.002)-----
S-n = 6.587 (0.000)-----
S-2p = 26.915 (0.000)-----
S-2n = 17.197 (0.000)-----
S-alpha= 10.787 (0.000)-----

S+p = -8.645 (0.000)
S+n = -9.200 (0.000)
S+2p = -18.215 (0.000)
S+2n = -13.708 (0.001)
S+alpha = -8.322 (0.000)

gap p = 5.729 (0.002)
gap n = -2.613 (0.000)
gap 2p = 8.700 (0.000)
gap 2n = 3.489 (0.001)
gap alpha = 2.465 (0.000)