

Riferimento per le tabelle nucleari : <http://www.nndc.bnl.gov/wallet/wall47.pdf>

Nuclear Wallet Cards

Nuclide			Δ	T $\frac{1}{2}$, Γ , or	Decay Mode
Z	El	A	(MeV)	Abundance	
0	n	1	1/2+	8.071	10.24 m 2 β^-
1	H	1	1/2+	7.289	99.985% 1
		2	1+	13.136	0.015% 1
		3	1/2+	14.950	12.32 y 2 β^-
		4	2-	25.9	4.6 MeV 9 n
		5		32.9	5.7 MeV 21 n
		6	(2-)	41.9	1.6 MeV 4 n
		7		49s	29 $\times 10^{-23}$ y 7
2	He	3	1/2+	14.931	0.000137% 3
		4	0+	2.425	99.999863% 3
		5	3/2-	11.39	0.60 MeV 2 α , n
		6	0+	17.595	806.7 ms 15 β^-
		7	(3/2)-	26.10	150 keV 20 n
		8	0+	31.598	119.0 ms 15 β^- , β -n 16%
		9	(1/2-)	40.94	65 keV 37 n
		10	0+	48.81	0.17 MeV 11 2n?
3	Li	3		29s	unstable p?
		4	2-	25.3	6.03 MeV p
		5	3/2-	11.68	≈ 1.5 MeV α , p
		6	1+	14.087	7.59% 4
		7	3/2-	14.908	92.41% 4
		8	2+	20.947	838 ms 6 β^- , β - α
		9	3/2-	24.954	178.3 ms 4 β^- , β -n 50.8%
		10	(1-, 2-)	33.05	1.2 MeV 3 n
		11	3/2-	40.80	8.59 ms 14 β^- , β -n α 0.027%, β -n n?
		12		50.1s	<10 ns
4	Be	5	(1/2+)	38s	? p
		6	0+	18.375	92 keV 6 p, α
		7	3/2-	15.770	53.22 d 6 e
		8	0+	4.942	6.8 eV 17 α
		9	3/2-	11.348	100%
		10	0+	12.607	1.51 $\times 10^6$ y 6 β^-
		11	1/2+	20.174	13.81 s 8 β^- , β - α 3.1%
		12	0+	25.08	21.49 ms 3 β^- , β -n $\leq 1\%$
		13	(1/2-)	33.25	2.7 $\times 10^{-21}$ s 18 n
		14	0+	40.0	4.84 ms 10 β^- , β -n 94%, β -2n 6%
		15		49.8s	<200 ns n?
		16	0+	57.7s	<200 ns 2n?
5	B	6		43.6s	unstable 2p?
		7	(3/2-)	27.87	1.4 MeV 2 p, α
		8	2+	22.921	770 ms 3 e, e α
		9	3/2-	12.416	0.54 keV 21 p,
		10	3+	12.051	19.8% 3
		11	3/2-	8.668	80.2% 3
		12	1+	13.369	20.20 ms 2 β^- , β -3 α 1.58%
		13	3/2-	16.562	17.33 ms 17 β^-
		14	2-	23.66	12.5 ms 5 β^- , β -n 6.04%
		15		28.97	9.93 ms 7 β^- , β -n 93.6%, β -2n 0.4%
5	B	15		28.96	9.93 ms 7 β^- , β -n 93.6%, β -2n 0.4%
		16	0-	37.12	<190 ps n
		17	(3/2-)	43.8	5.08 ms 5 β^- , β -n 63%, β -2n 11%, β -3n 3.5%, β -4n 0.4%
		18	(4-)	51.9s	<26 ns n?
		19	(3/2-)	58.8s	2.92 ms 13 β^- , β -n 72%, β -2n 16%
		20		67.1s	
		21		75.7s	
6	C	8	0+	35.08	230 keV 50 p, α
		9	(3/2-)	28.909	126.5 ms 9 e, ϵ p 61.6%, e α 38.4%
		10	0+	15.698	19.308 s 4 e
		11	3/2-	10.650	20.334 m 24 e
		12	0+	0.000	98.93% 8
		13	1/2-	3.125	1.07% 8
		14	0+	3.020	5700 y 30 β^-
		15	1/2+	9.873	2.449 s 5 β^-
		16	0+	13.694	0.747 s 8 β^- , β -n 99%
		17	3/2+	21.03	193 ms 13 β^- , β -n 32%
		18	0+	24.92	92 ms 2 β^- , β -n 31.5%
		19	1/2+	32.41	49 ms 4 β^- , β -n 61%
		20	0+	37.6	14 ms +6-5 β^- , β -n 72%
		21	(1/2+)	45.6s	<30 ns n?
		22	0+	52.1s	6.1 ms +14-12 β^- , β -n 61%, β -2n <37%
		23		62.7s	