

TAVOLA PERIODICA DEI NUCLEI ATOMICI
configurazione dei livelli nucleari degli isodiaferi I = +30

$\frac{E_c(\text{MeV})}{E_s(\text{MeV})}$	Sa	$\frac{m_c}{m_s}$	n	1	2	3	4	5	6	7	$\frac{E_\alpha(\text{eV})}{T_{1/2}}$
$\frac{878.725}{878.93}$	Y ₃₉ ¹⁰⁸	$\frac{107.95971}{107.95948}$	39n	2+0	6+1	0+9	0+11	0+5	1+3	0+1	$\frac{-}{\beta^- 25.0\text{ms}}$
$\frac{900.522}{900.45}$	Zr ₄₀ ¹¹⁰	$\frac{109.95280}{109.95287}$	40n	2+0	6+1	0+9	0+11	1+7	0+2	1+0	$\frac{-}{\beta^- 37.0\text{ms}}$
$\frac{917.401}{917.71}$	Nb ₄₁ ¹¹²	$\frac{111.95116}{111.95083}$	41n	2+0	6+1	0+9	0+12	1+5	1+3	1+0	$\frac{-9.600\text{M}}{\beta^- 33.0\text{ms}}$
$\frac{938.633}{938.58}$	Mo ₄₂ ¹¹⁴	$\frac{113.94486}{113.94492}$	42n	2+0	8+0	0+9	0+13	1+5	1+2	0+1	$\frac{-9.500\text{M}}{\beta^- 60.0\text{ms}}$
$\frac{955.140}{955.38}$	Tc ₄₃ ¹¹⁶	$\frac{115.94363}{115.94337}$	43n	2+0	8+0	0+9	1+13	1+4	0+4	1+0	$\frac{-9.400\text{M}}{\beta^- 56.0\text{ms}}$
$\frac{975.881}{975.91}$	Ru ₄₄ ¹¹⁸	$\frac{117.93785}{117.93782}$	44n	2+0	8+0	2+8	1+14	0+4	0+4	1+0	$\frac{-9.700\text{M}}{\beta^- 123\text{ms}}$
$\frac{992.775}{992.59}$	Rh ₄₅ ¹²⁰	$\frac{119.93621}{119.93641}$	45n	2+0	8+0	2+8	1+14	1+5	0+2	1+1	$\frac{-9.800\text{M}}{\beta^- 136\text{ms}}$
$\frac{1013.54}{1013.4}$	Pd ₄₆ ¹²²	$\frac{121.93041}{121.93055}$	46n	2+0	8+0	4+7	1+15	0+5	0+2	1+1	$\frac{-9.900\text{M}}{\beta^- 175\text{ms}}$
$\frac{1030.726}{1030.5}$	Ag ₄₇ ¹²⁴	$\frac{123.92845}{123.92864}$	47n	2+0	8+0	6+6	0+16	0+4	0+4	1+0	$\frac{-9.800\text{M}}{\beta^- 172\text{ms}}$
$\frac{1051.96}{1051.8}$	Cd ₄₈ ¹²⁶	$\frac{125.92214}{125.92235}$	48n	2+0	8+0	6+6	0+16	1+6	0+2	1+0	$\frac{-10.00\text{M}}{\beta^- 515\text{ms}}$
$\frac{1069.01}{1069.2}$	In ₄₉ ¹²⁸	$\frac{127.92032}{127.92017}$	49n	2+0	8+0	6+6	0+16	1+7	1+1	1+0	$\frac{-10.60\text{M}}{\beta^- 0.84\text{s}}$
$\frac{1089.73}{1090.3}$	Sn ₅₀ ¹³⁰	$\frac{129.91457}{129.913967}$	50n	2+0	8+0	8+5	0+16	1+9	1+0	0+0	$\frac{-10.306\text{M}}{\beta^- 3.72\text{m}}$
$\frac{1105.28}{1105.2}$	Sb ₅₁ ¹³²	$\frac{131.91437}{131.914467}$	51n	2+0	8+0	10+4	0+16	0+10	1+0	0+0	$\frac{-7.730\text{M}}{\beta^- 2.79\text{m}}$
$\frac{1122.21}{1123.4}$	Te ₅₂ ¹³⁴	$\frac{133.91268}{133.911369}$	52n	2+0	8+0	12+3	0+16	0+11	0+0	0+0	$\frac{-4.847\text{M}}{\beta^- 41.8\text{m}}$
$\frac{1136.14}{1135.7}$	I ₅₃ ¹³⁶	$\frac{135.91422}{135.91465}$	53n	2+0	8+0	12+3	0+16	0+11	1+0	0+0	$\frac{-2.328\text{M}}{\beta^- 83.4\text{s}}$
$\frac{1151.43}{1151.8}$	Xe ₅₄ ¹³⁸	$\frac{137.91429}{137.91395}$	54n	2+0	8+0	12+3	0+16	1+11	1+0	0+0	$\frac{160\text{K}}{\beta^- 14.08\text{m}}$
$\frac{1163.66}{1164.0}$	Cs ₅₅ ¹⁴⁰	$\frac{139.91765}{139.917282}$	55n	2+0	8+0	14+2	0+16	0+11	1+1	0+0	$\frac{97.0\text{K}}{\beta^- 63.7\text{s}}$

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$\frac{1180.28}{1180.1}$	Ba ¹⁴² ₅₆	$\frac{141.91630}{141.916453}$	56n	2+0	8+0	16+1	0+16	0+12	0+1	0+0	$\frac{-295\text{K}}{\beta^- 10.6\text{m}}$
$\frac{1192.27}{1192.6}$	La ¹⁴⁴ ₅₇	$\frac{143.91992}{143.91960}$	57n	2+0	8+0	16+1	0+16	1+11	0+2	0+0	$\frac{-208\text{K}}{\beta^- 40.8\text{s}}$
$\frac{1208.72}{1208.7}$	Ce ¹⁴⁶ ₅₈	$\frac{145.91876}{145.91876}$	58n	2+0	8+0	16+1	0+16	1+12	1+1	0+0	$\frac{-221\text{K}}{\beta^- 13.52\text{m}}$
$\frac{1220.48}{1220.9}$	Pr ¹⁴⁸ ₅₉	$\frac{147.92262}{147.922135}$	59n	2+0	8+0	18+0	0+16	0+12	1+2	0+0	$\frac{-126\text{K}}{\beta^- 2.29\text{m}}$
$\frac{1236.78}{1237.4}$	Nd ¹⁵⁰ ₆₀	$\frac{149.92161}{149.920891}$	60n	2+0	8+0	18+0	2+15	0+13	0+2	0+0	$\frac{-467\text{K}}{2\beta^- 7.9 \cdot 10^{18}\text{a}}$
$\frac{1249.87}{1250.4}$	Pm ¹⁵² ₆₁	$\frac{151.92404}{151.923497}$	61n	2+0	8+0	18+0	2+15	0+13	1+2	0+0	$\frac{-1.150\text{M}}{\beta^- 4.12\text{m}}$
$\frac{1266.54}{1266.9}$	Sm ¹⁵⁴ ₆₂	$\frac{153.92264}{153.922209}$	62n	2+0	8+0	18+0	4+13	0+17	0+0	0+0	$\frac{-1.1966\text{M}}{st}$
$\frac{1280.53}{1279.9}$	Eu ¹⁵⁶ ₆₃	$\frac{155.92411}{155.924752}$	63n	2+0	8+0	18+0	4+14	1+14	0+2	0+0	$\frac{-1.250\text{M}}{\beta^- 15.19\text{d}}$
$\frac{1295.46}{1295.9}$	Gd ¹⁵⁸ ₆₄	$\frac{157.92457}{157.924104}$	64n	2+0	8+0	18+0	6+12	0+18	0+0	0+0	$\frac{-659.1\text{K}}{st}$
$\frac{1307.65}{1308.4}$	Tb ¹⁶⁰ ₆₅	$\frac{159.92797}{159.927168}$	65n	2+0	8+0	18+0	6+13	0+15	1+2	0+0	$\frac{-175\text{K}}{\beta^- 72.3\text{d}}$
$\frac{1323.52}{1324.1}$	Dy ¹⁶² ₆₆	$\frac{161.92743}{161.926798}$	66n	2+0	8+0	18+0	8+12	0+16	0+2	0+0	$\frac{84.3\text{K}}{st}$
$\frac{1336.03}{1336.3}$	Ho ¹⁶⁴ ₆₇	$\frac{163.93049}{163.930234}$	67n	2+0	8+0	18+0	8+12	0+16	1+2	0+0	$\frac{430.4\text{K}}{ce 29.0\text{m}}$
$\frac{1351.74}{1351.6}$	Er ¹⁶⁶ ₆₈	$\frac{165.93011}{165.930293}$	68n	2+0	8+0	18+0	10+11	0+17	0+2	0+0	$\frac{830.3\text{K}}{st}$
$\frac{1364.05}{1363.3}$	Tm ¹⁶⁸ ₆₉	$\frac{167.93339}{167.934173}$	69n	2+0	8+0	18+0	10+11	0+17	1+2	0+0	$\frac{1.2430\text{M}}{ce 93.1\text{d}}$
$\frac{1377.93}{1378.1}$	Yb ¹⁷⁰ ₇₀	$\frac{169.93498}{169.934762}$	70n	2+0	8+0	18+0	10+11	1+17	1+2	0+0	$\frac{1.7361\text{M}}{st}$
$\frac{1390.04}{1389.5}$	Lu ¹⁷² ₇₁	$\frac{171.93846}{171.939086}$	71n	2+0	8+0	18+0	12+10	1+17	0+3	0+0	$\frac{2.151\text{M}}{ce 6.70\text{d}}$
$\frac{1403.73}{1403.9}$	Hf ¹⁷⁴ ₇₂	$\frac{173.94026}{173.940046}$	72n	2+0	8+0	18+0	14+9	0+18	0+3	0+0	$\frac{2.4931\text{M}}{\alpha 2.0 \cdot 10^{15}\text{d}}$

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$\frac{1415.62}{1414.8}$	Ta ₇₃ ¹⁷⁶	$\frac{175.94398}{175.94486}$	73n	2+0	8+0	18+0	14+9	0+18	1+3	0+0	$\frac{2.950M}{ce\ 8.09h}$
$\frac{1429.13}{1429.2}$	W ₇₄ ¹⁷⁸	$\frac{177.945576}{177.945876}$	74n	2+0	8+0	18+0	14+9	1+18	1+3	0+0	$\frac{3.009M}{ce\ 21.6d}$
$\frac{1439.76}{1440.0}$	Re ₇₅ ¹⁸⁰	$\frac{179.95105}{179.950789}$	75n	2+0	8+0	18+0	14+9	1+18	1+3	1+0	$\frac{3.100M}{ce\ 2.44m}$
$\frac{1453.07}{1454.1}$	Os ₇₆ ¹⁸²	$\frac{181.95325}{181.952110}$	76n	2+0	8+0	18+0	16+8	0+19	1+3	1+0	$\frac{3.380M}{ce\ 21.84h}$
$\frac{1464.54}{1464.5}$	Ir ₇₇ ¹⁸⁴	$\frac{183.95742}{183.95748}$	77n	2+0	8+0	18+0	18+7	0+19	0+4	1+0	$\frac{3.800M}{ce\ 3.09h}$
$\frac{1477.65}{1478.1}$	Pt ₇₈ ¹⁸⁶	$\frac{185.95984}{185.959351}$	78n	2+0	8+0	18+0	18+7	1+19	0+4	1+0	$\frac{4.320M}{ce\ 2.08h}$
$\frac{1487.84}{1487.9}$	Au ₇₉ ¹⁸⁸	$\frac{187.96539}{187.965324}$	79n	2+0	8+0	18+0	20+6	1+19	0+4	0+1	$\frac{4.890M}{ce\ 8.84m}$
$\frac{1501.82}{1502.3}$	Hg ₈₀ ¹⁹⁰	$\frac{189.96687}{189.966322}$	80n	2+0	8+0	18+0	20+6	0+20	1+4	1+0	$\frac{4.070M}{ce\ 20.0m}$
$\frac{1511.79}{1512.2}$	Tl ₈₁ ¹⁹²	$\frac{191.97266}{191.97223}$	81n	2+0	8+0	18+0	22+5	0+20	1+4	0+1	$\frac{4.070M}{ce\ 9.60m}$
$\frac{1525.58}{1525.9}$	Pb ₈₂ ¹⁹⁴	$\frac{193.97435}{193.974012}$	82n	2+0	8+0	18+0	22+5	1+20	0+5	1+0	$\frac{4.738M}{ce\ 10.7m}$
$\frac{1534.61}{1535.1}$	Bi ₈₃ ¹⁹⁶	$\frac{195.98114}{195.980667}$	83n	2+0	8+0	18+0	24+4	0+20	0+6	1+0	$\frac{5.440M}{ce\ 308s}$
$\frac{1547.17}{1547.9}$	Po ₈₄ ¹⁹⁸	$\frac{197.98415}{197.983389}$	84n	2+0	8+0	18+0	24+4	1+20	0+6	1+0	$\frac{6.3098M}{\alpha\ 1.77m}$
$\frac{1556.81}{1556.8}$	At ₈₅ ²⁰⁰	$\frac{199.990351}{199.990351}$	85n	2+0	8+0	18+0	26+3	1+20	0+6	0+1	$\frac{6.5961M}{\alpha\ 43.0s}$
$\frac{1569.31}{1569.4}$	Rn ₈₆ ²⁰²	$\frac{201.99336}{201.993263}$	86n	2+0	8+0	18+0	28+2	0+21	0+6	0+1	$\frac{6.7737M}{\alpha\ 9.70s}$
$\frac{1578.11}{1577.9}$	Fr ₈₇ ²⁰⁴	$\frac{204.000403}{204.000653}$	87n	2+0	8+0	18+0	28+2	1+20	0+7	0+1	$\frac{7.1704M}{\alpha\ 1.80s}$
$\frac{1589.79}{1590.3}$	Ra ₈₈ ²⁰⁶	$\frac{206.00435}{206.003827}$	88n	2+0	8+0	18+0	28+2	1+20	0+8	1+0	$\frac{7.415M}{\alpha\ 0.24s}$
$\frac{1598.46}{1598.4}$	Ac ₈₉ ²⁰⁸	$\frac{208.01154}{208.01155}$	89n	2+0	8+0	18+0	30+1	0+20	0+9	1+0	$\frac{7.730M}{\alpha\ 95.0ms}$

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$\frac{1610.76}{1610.5}$	Th ²¹⁰ ₉₀	$\frac{210.01482}{210.015075}$	90n	2+0	8+0	18+0	30+1	1+20	0+9	1+0	$\frac{8.069\text{M}}{\alpha 16.0\text{ms}}$
$\frac{1618.18}{1618.3}$	Pa ²¹² ₉₁	$\frac{212.02335}{212.02320}$	91n	2+0	8+0	18+0	32+0	0+20	1+9	0+1	$\frac{8.430\text{M}}{\alpha 5.10\text{ms}}$
$\frac{1631.51}{-}$	U ²¹⁴ ₉₂	$\frac{214.02553}{-}$	92n	2+0	8+0	18+0	32+0	1+20	0+10	1+0	$\frac{7.314\text{M}}{-}$
$\frac{1641.79}{-}$	Np ²¹⁶ ₉₃	$\frac{216.03098}{-}$	93n	2+0	8+0	18+0	32+0	1+20	1+10	1+0	$\frac{4.822\text{M}}{-}$