

TAVOLA PERIODICA DEI NUCLEI ATOMICI
configurazione dei livelli nucleari degli isodiaferi I = +28

$\frac{E_c(\text{MeV})}{E_s(\text{MeV})}$	Sa	$\frac{m_c}{m_s}$	n	1	2	3	4	5	6	7	$\frac{E_\alpha(\text{eV})}{T_{1/2}}$
$\frac{815.298}{815.17}$	Kr ¹⁰⁰ ₃₆	$\frac{99.96100}{99.96114}$	36n	2+0	2+3	0+9	1+10	1+2	1+4	1+0	$\frac{-}{\beta^- 7.0\text{ms}}$
$\frac{832.626}{832.64}$	Rb ¹⁰² ₃₇	$\frac{101.95888}{101.95887}$	37n	2+0	4+2	0+9	1+10	1+3	0+4	1+0	$\frac{-}{\beta^- 37.0\text{ms}}$
$\frac{854.147}{854.09}$	Sr ¹⁰⁴ ₃₈	$\frac{103.95227}{103.95233}$	38n	2+0	6+1	0+9	1+11	0+4	0+2	1+1	$\frac{-11.20\text{M}}{\beta^- 43.0\text{ms}}$
$\frac{871.677}{871.82}$	Y ¹⁰⁶ ₃₉	$\frac{105.94994}{105.94979}$	39n	2+0	6+1	0+9	1+11	1+4	0+3	1+0	$\frac{-10.60\text{M}}{\beta^- 62.0\text{ms}}$
$\frac{892.499}{892.61}$	Zr ¹⁰⁸ ₄₀	$\frac{107.94408}{107.94396}$	40n	2+0	8+0	0+9	0+12	1+5	0+2	1+0	$\frac{-9.900\text{M}}{\beta^- 73.0\text{ms}}$
$\frac{909.531}{909.39}$	Nb ¹¹⁰ ₄₁	$\frac{109.94228}{109.94244}$	41n	2+0	8+0	0+9	1+12	0+5	1+2	1+0	$\frac{-8.700\text{M}}{\beta^- 86.0\text{ms}}$
$\frac{929.922}{929.96}$	Mo ¹¹² ₄₂	$\frac{111.93688}{111.93684}$	42n	2+0	8+0	2+8	1+13	0+5	0+1	1+1	$\frac{-8.600\text{M}}{\beta^- 120\text{ms}}$
$\frac{946.060}{946.22}$	Tc ¹¹⁴ ₄₃	$\frac{113.93605}{113.93588}$	43n	2+0	8+0	2+8	1+13	0+5	1+2	1+0	$\frac{-9.00\text{M}}{\beta^- 100\text{ms}}$
$\frac{966.528}{966.30}$	Ru ¹¹⁶ ₄₄	$\frac{115.93056}{115.93081}$	44n	2+0	8+0	4+7	0+15	0+3	1+3	1+0	$\frac{-9.00\text{M}}{\beta^- 204\text{ms}}$
$\frac{982.026}{982.35}$	Rh ¹¹⁸ ₄₅	$\frac{117.93042}{117.93007}$	45n	2+0	8+0	6+6	0+15	0+4	0+2	1+1	$\frac{-8.460\text{M}}{\beta^- 266\text{ms}}$
$\frac{1002.71}{1002.7}$	Pd ¹²⁰ ₄₆	$\frac{119.92469}{119.92469}$	46n	2+0	8+0	6+6	0+16	1+3	0+2	1+1	$\frac{-8.570\text{M}}{\beta^- 500\text{ms}}$
$\frac{1019.21}{1019.2}$	Ag ¹²² ₄₇	$\frac{121.92348}{121.92353}$	47n	2+0	8+0	8+5	0+16	0+4	1+2	0+1	$\frac{-8.640\text{M}}{\beta^- 529\text{ms}}$
$\frac{1039.81}{1040.0}$	Cd ¹²⁴ ₄₈	$\frac{123.91785}{123.91765}$	48n	2+0	8+0	8+5	0+16	0+6	1+1	1+0	$\frac{-8.812\text{M}}{\beta^- 1.25\text{s}}$
$\frac{1056.78}{1056.5}$	In ¹²⁶ ₄₉	$\frac{125.91613}{125.91646}$	49n	2+0	8+0	10+4	0+16	0+7	0+1	1+0	$\frac{-9.130\text{M}}{\beta^- 1.53\text{s}}$
$\frac{1077.41}{1077.3}$	Sn ¹²⁸ ₅₀	$\frac{127.91047}{127.91054}$	50n	2+0	8+0	12+3	0+16	0+9	0+0	0+0	$\frac{-9.060\text{M}}{\beta^- 59.07\text{ms}}$
$\frac{1091.44}{1091.7}$	Sb ¹³⁰ ₅₁	$\frac{129.91190}{129.911656}$	51n	2+0	8+0	12+3	0+16	0+9	1+0	0+0	$\frac{-6.900\text{M}}{\beta^- 39.5\text{m}}$
$\frac{1108.27}{1109.9}$	Te ¹³² ₅₂	$\frac{131.91032}{131.908553}$	52n	2+0	8+0	14+2	0+16	0+10	0+0	0+0	$\frac{-4.270\text{M}}{\beta^- 3.204\text{d}}$

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$\frac{1123.57}{1124.2}$	I ₅₃ ¹³⁴	$\frac{133.91038}{133.909744}$	53n	2+0	8+0	14+2	0+16	1+10	0+0	0+0	$\frac{-4.207\text{M}}{\beta^- 52.5\text{m}}$
$\frac{1138.79}{1141.9}$	Xe ₅₄ ¹³⁶	$\frac{135.91053}{135.907219}$	54n	2+0	8+0	16+1	0+16	0+11	0+0	0+0	$\frac{-3.674\text{M}}{2\beta^- 2.4 \cdot 10^{21}\text{a}}$
$\frac{1153.93}{1153.7}$	Cs ₅₅ ¹³⁸	$\frac{137.91077}{137.911017}$	55n	2+0	8+0	16+1	0+16	1+11	0+0	0+0	$\frac{-1.240\text{M}}{\beta^- 33.41\text{m}}$
$\frac{1168.99}{1169.4}$	Ba ₅₆ ¹⁴⁰	$\frac{139.91109}{139.910605}$	56n	2+0	8+0	18+0	0+16	0+12	0+0	0+0	$\frac{734\text{K}}{\beta^- 12.7527\text{d}}$
$\frac{1180.91}{1181.6}$	La ₅₇ ¹⁴²	$\frac{141.91479}{141.914079}$	57n	2+0	8+0	18+0	0+16	1+11	0+1	0+0	$\frac{440\text{K}}{\beta^- 91.1\text{m}}$
$\frac{1197.30}{1197.3}$	Ce ₅₈ ¹⁴⁴	$\frac{143.913647}{143.913647}$	58n	2+0	8+0	18+0	0+16	1+12	1+0	0+0	$\frac{414\text{K}}{\beta^- 284.91\text{d}}$
$\frac{1209.00}{1209.0}$	Pr ₅₉ ¹⁴⁶	$\frac{145.91750}{145.91764}$	59n	2+0	8+0	18+0	2+15	0+12	1+1	0+0	$\frac{910\text{K}}{\beta^- 24.15\text{m}}$
$\frac{1225.25}{1225.0}$	Nd ₆₀ ¹⁴⁸	$\frac{147.91665}{147.916893}$	60n	2+0	8+0	18+0	4+14	0+13	0+1	0+0	$\frac{599\text{K}}{st}$
$\frac{1236.70}{1236.6}$	Pm ₆₁ ¹⁵⁰	$\frac{149.92085}{149.920984}$	61n	2+0	8+0	18+0	4+14	1+12	0+2	0+0	$\frac{660\text{K}}{\beta^- 2.68\text{h}}$
$\frac{1253.04}{1253.1}$	Sm ₆₂ ¹⁵²	$\frac{151.91980}{151.919732}$	62n	2+0	8+0	18+0	5+13	0+15	1+0	0+0	$\frac{219.7\text{K}}{st}$
$\frac{1265.88}{1265.4}$	Eu ₆₃ ¹⁵⁴	$\frac{153.92251}{153.922979}$	63n	2+0	8+0	18+0	7+12	0+15	0+1	0+0	$\frac{-565\text{K}}{\beta^- 8.601\text{a}}$
$\frac{1281.82}{1281.6}$	Gd ₆₄ ¹⁵⁶	$\frac{155.92188}{155.922123}$	64n	2+0	8+0	18+0	7+12	0+16	1+0	0+0	$\frac{-197.2\text{K}}{st}$
$\frac{1294.21}{1293.9}$	Tb ₆₅ ¹⁵⁸	$\frac{157.92507}{157.925413}$	65n	2+0	8+0	18+0	8+12	1+14	0+2	0+0	$\frac{-157.6\text{K}}{ce 180\text{a}}$
$\frac{1310.01}{1309.5}$	Dy ₆₆ ¹⁶⁰	$\frac{159.92460}{159.925197}$	66n	2+0	8+0	18+0	8+12	1+15	1+1	0+0	$\frac{438.5\text{K}}{st}$
$\frac{1320.81}{1321.2}$	Ho ₆₇ ¹⁶²	$\frac{161.92950}{161.929096}$	67n	2+0	8+0	18+0	10+11	0+15	1+2	0+0	$\frac{1.005\text{M}}{ce 15.0\text{m}}$
$\frac{1336.45}{1336.4}$	Er ₆₈ ¹⁶⁴	$\frac{163.92920}{163.92920}$	68n	2+0	8+0	18+0	12+10	0+16	0+2	0+0	$\frac{1.3046\text{M}}{st}$
$\frac{1348.69}{1347.8}$	Tm ₆₉ ¹⁶⁶	$\frac{165.93255}{165.933554}$	69n	2+0	8+0	18+0	12+10	0+16	1+2	0+0	$\frac{1.728\text{M}}{ce 7.70\text{h}}$

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$\frac{1362.50}{1362.8}$	Yb ¹⁶⁸ ₇₀	$\frac{167.93421}{167.933897}$	70n	2+0	8+0	18+0	12+10	1+16	1+2	0+0	$\frac{1.9362\text{M}}{2ce\ 1.3\cdot 10^{14}\text{a}}$
$\frac{1374.54}{1373.9}$	Lu ¹⁷⁰ ₇₁	$\frac{169.93777}{169.938475}$	71n	2+0	8+0	18+0	14+9	1+16	0+3	0+0	$\frac{2.157\text{M}}{ce\ 2.012\text{d}}$
$\frac{1388.16}{1388.3}$	Hf ¹⁷² ₇₂	$\frac{171.93964}{171.939448}$	72n	2+0	8+0	18+0	16+8	0+17	0+3	0+0	$\frac{2.752\text{M}}{ce\ 1.87\text{a}}$
$\frac{1398.95}{1399.0}$	Ta ¹⁷⁴ ₇₃	$\frac{173.94455}{173.94445}$	73n	2+0	8+0	18+0	16+8	0+17	0+3	1+0	$\frac{3.140\text{M}}{ce\ 1.14\text{h}}$
$\frac{1412.39}{1413.3}$	W ¹⁷⁶ ₇₄	$\frac{175.94661}{175.94563}$	74n	2+0	8+0	18+0	16+8	1+17	0+3	1+0	$\frac{3.340\text{M}}{ce\ 2.50\text{h}}$
$\frac{1424.00}{1423.7}$	Re ¹⁷⁸ ₇₅	$\frac{177.95064}{177.95099}$	75n	2+0	8+0	18+0	16+8	1+17	1+3	1+0	$\frac{3.660\text{M}}{ce\ 13.2\text{m}}$
$\frac{1437.24}{1437.7}$	Os ¹⁸⁰ ₇₆	$\frac{179.95291}{179.952379}$	76n	2+0	8+0	18+0	18+7	0+18	1+3	1+0	$\frac{3.860\text{M}}{ce\ 21.5\text{m}}$
$\frac{1447.60}{1447.8}$	Ir ¹⁸² ₇₇	$\frac{181.95828}{181.958076}$	77n	2+0	8+0	18+0	20+6	0+18	1+3	0+1	$\frac{4.18'\text{M}}{ce\ 15.0\text{m}}$
$\frac{1461.70}{1461.4}$	Pt ¹⁸⁴ ₇₈	$\frac{183.95963}{183.959922}$	78n	2+0	8+0	18+0	20+6	1+18	0+4	1+0	$\frac{4.598\text{M}}{ce\ 17.3\text{m}}$
$\frac{1471.13}{1471.2}$	Au ¹⁸⁶ ₇₉	$\frac{185.96600}{185.965953}$	79n	2+0	8+0	18+0	22+5	0+18	0+5	1+0	$\frac{4.912\text{M}}{ce\ 10.7\text{m}}$
$\frac{1484.69}{1485.0}$	Hg ¹⁸⁸ ₈₀	$\frac{187.96793}{187.967577}$	80n	2+0	8+0	18+0	24+4	0+19	0+4	0+1	$\frac{4.705\text{M}}{ce\ 3.25\text{m}}$
$\frac{1494.95}{1494.5}$	Tl ¹⁹⁰ ₈₁	$\frac{189.97341}{189.97388}$	81n	2+0	8+0	18+0	22+5	1+18	1+5	1+0	$\frac{4.980\text{M}}{ce\ 2.60\text{m}}$
$\frac{1507.95}{1508.1}$	Pb ¹⁹² ₈₂	$\frac{191.97594}{191.975785}$	82n	2+0	8+0	18+0	24+4	0+19	1+5	1+0	$\frac{5.221\text{M}}{ce\ 3.50\text{m}}$
$\frac{1516.57}{1516.9}$	Bi ¹⁹⁴ ₈₃	$\frac{193.98318}{193.98283}$	83n	2+0	8+0	18+0	24+4	1+18	1+6	1+0	$\frac{5.918\text{M}}{ce\ 95.0\text{s}}$
$\frac{1529.07}{1529.7}$	Po ¹⁹⁶ ₈₄	$\frac{195.98625}{195.985535}$	84n	2+0	8+0	18+0	26+3	0+19	1+6	1+0	$\frac{6.6580\text{M}}{\alpha\ 5.80\text{s}}$
$\frac{1538.65}{1538.3}$	At ¹⁹⁸ ₈₅	$\frac{197.99246}{197.99284}$	85n	2+0	8+0	18+0	28+2	0+19	1+6	0+1	$\frac{6.8924\text{M}}{\alpha\ 3.80\text{s}}$
$\frac{1550.36}{1551.0}$	Rn ²⁰⁰ ₈₆	$\frac{199.99637}{199.995699}$	86n	2+0	8+0	18+0	28+2	0+19	1+7	1+0	$\frac{7.0433\text{M}}{\alpha\ 1.03\text{s}}$

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$\frac{1559.10}{1559.2}$	Fr ²⁰² ₈₇	$\frac{202.00348}{202.00337}$	87n	2+0	8+0	18+0	28+2	1+18	1+8	1+0	$\frac{7.389\text{M}}{\alpha 0.30\text{s}}$
$\frac{1571.45}{1571.6}$	Ra ²⁰⁴ ₈₈	$\frac{204.00671}{204.006500}$	88n	2+0	8+0	18+0	30+1	0+19	1+8	1+0	$\frac{7.637\text{M}}{\alpha 57.0\text{ms}}$
$\frac{1580.06}{1579.6}$	Ac ²⁰⁶ ₈₉	$\frac{206.01396}{206.01450}$	89n	2+0	8+0	18+0	30+1	1+18	1+9	1+0	$\frac{7.940\text{M}}{\alpha 22.0\text{ms}}$
$\frac{1592.31}{-}$	Th ²⁰⁸ ₉₀	$\frac{208.01730}{-}$	90n	2+0	8+0	18+0	32+0	0+19	1+9	1+0	$\frac{8.200\text{M}}{\alpha 1.70\text{ms}}$