

TAVOLA PERIODICA DEI NUCLEI ATOMICI
configurazione dei livelli nucleari degli isodiaferi I = +25

$\frac{E_c(\text{MeV})}{E_s(\text{MeV})}$	Sa	$\frac{m_c}{m_s}$	n	1	2	3	4	5	6	7	$\frac{E_\alpha(\text{eV})}{T_{1/2}}$
$\frac{688.538}{-}$	Zn ⁸⁵ ₃₀	$\frac{84.97215}{-}$	30n	2+0	2+3	0+9	0+7	0+3	1+2	0+1	$\frac{-}{\beta^- > 637\text{ns}}$
$\frac{707.695}{-}$	Ga ⁸⁷ ₃₁	$\frac{86.96807}{-}$	31n	2+0	4+2	0+9	0+8	0+2	0+3	0+1	$\frac{-}{\beta^- > 634\text{ns}}$
$\frac{727.010}{727.00}$	Ge ⁸⁹ ₃₂	$\frac{88.96382}{88.96383}$	32n	2+0	2+3	0+9	1+8	1+2	1+2	0+1	$\frac{-10.15\text{M}}{\beta^- 50\text{ms}}$
$\frac{745.263}{745.53}$	As ⁹¹ ₃₃	$\frac{90.96072}{90.96043}$	33n	2+0	4+2	0+9	0+9	1+2	1+2	0+1	$\frac{-9.518\text{M}}{\beta^- 50\text{ms}}$
$\frac{764.463}{764.75}$	Se ⁹³ ₃₄	$\frac{92.95660}{92.95629}$	34n	2+0	6+1	0+9	0+10	1+1	0+3	0+1	$\frac{-9.300\text{M}}{\beta^- 50\text{ms}}$
$\frac{782.889}{783.29}$	Br ⁹⁵ ₃₅	$\frac{94.95331}{94.95287}$	35n	2+0	8+0	0+9	0+10	0+3	0+2	0+1	$\frac{-9.400\text{M}}{\beta^- 50\text{ms}}$
$\frac{802.805}{802.67}$	Kr ⁹⁷ ₃₆	$\frac{96.94841}{96.94856}$	36n	2+0	8+0	0+9	0+11	0+2	0+3	1+0	$\frac{-9.100\text{M}}{\beta^- 63.0\text{ms}}$
$\frac{821.030}{820.84}$	Rb ⁹⁹ ₃₇	$\frac{98.94534}{98.94554}$	37n	2+0	8+0	0+9	1+11	0+2	0+3	1+0	$\frac{-9.700\text{M}}{\beta^- 54.0\text{ms}}$
$\frac{840.948}{840.88}$	Sr ¹⁰¹ ₃₈	$\frac{100.94045}{100.94052}$	38n	2+0	8+0	2+8	0+12	0+3	1+1	0+1	$\frac{-10.57\text{M}}{\beta^- 118\text{ms}}$
$\frac{859.914}{859.77}$	Y ¹⁰³ ₃₉	$\frac{102.93658}{102.93673}$	39n	2+0	8+0	2+8	1+12	0+3	0+2	1+0	$\frac{-9.710\text{M}}{\beta^- 230\text{ms}}$
$\frac{878.328}{878.56}$	Zr ¹⁰⁵ ₄₀	$\frac{104.93330}{104.93305}$	40n	2+0	8+0	2+8	1+12	1+4	0+1	1+0	$\frac{-8.330\text{M}}{\beta^- 660\text{ms}}$
$\frac{896.534}{896.47}$	Nb ¹⁰⁷ ₄₁	$\frac{106.93024}{106.93031}$	41n	2+0	8+0	4+7	0+13	1+4	0+1	1+0	$\frac{-7.640\text{M}}{\beta^- 300\text{ms}}$
$\frac{913.939}{914.16}$	Mo ¹⁰⁹ ₄₂	$\frac{108.92805}{108.92781}$	42n	2+0	8+0	4+7	1+13	1+4	1+0	0+1	$\frac{-7.627\text{M}}{\beta^- 660\text{ms}}$
$\frac{931.893}{931.49}$	Tc ¹¹¹ ₄₃	$\frac{110.92526}{110.92569}$	43n	2+0	8+0	6+6	1+14	0+3	1+1	0+1	$\frac{-7.728\text{M}}{\beta^- 350\text{ms}}$
$\frac{950.033}{949.84}$	Ru ¹¹³ ₄₄	$\frac{112.92228}{112.92249}$	44n	2+0	8+0	8+5	0+15	0+3	1+1	0+1	$\frac{-7.620\text{M}}{\beta^- 0.80\text{s}}$
$\frac{967.027}{967.21}$	Rh ¹¹⁵ ₄₅	$\frac{114.92052}{114.92033}$	45n	2+0	8+0	10+4	0+15	0+4	0+1	0+1	$\frac{-7.634\text{M}}{\beta^- 0.99\text{s}}$
$\frac{984.893}{984.89}$	Pd ¹¹⁷ ₄₆	$\frac{116.91784}{116.91784}$	46n	2+0	8+0	10+4	0+16	1+2	0+2	0+1	$\frac{-6.970\text{M}}{\beta^- 4.30\text{s}}$

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$\frac{1002.62}{1002.3}$	Ag ¹¹⁹ ₄₇	$\frac{118.91529}{118.91567}$	47n	2+0	8+0	10+4	0+16	1+3	0+2	1+0	$\frac{-6.841\text{M}}{\beta^- 6.0\text{s}}$
$\frac{1020.05}{1020.1}$	Cd ¹²¹ ₄₈	$\frac{120.91307}{120.91298}$	48n	2+0	8+0	12+3	0+16	0+5	1+0	0+1	$\frac{-7.060\text{M}}{\beta^- 13.5\text{s}}$
$\frac{1037.715}{1037.9}$	In ¹²³ ₄₉	$\frac{122.91059}{122.91044}$	49n	2+0	8+0	12+3	0+16	0+6	1+0	1+0	$\frac{-7.210\text{M}}{\beta^- 6.17\text{s}}$
$\frac{1055.36}{1055.7}$	Sn ¹²⁵ ₅₀	$\frac{124.90814}{124.90778}$	50n	2+0	8+0	14+2	0+16	0+7	1+0	0+0	$\frac{-7.270\text{M}}{\beta^- 9.64\text{d}}$
$\frac{1072.11}{1071.9}$	Sb ¹²⁷ ₅₁	$\frac{126.90665}{126.906924}$	51n	2+0	8+0	16+1	0+16	0+8	0+0	0+0	$\frac{-5.698\text{M}}{\beta^- 3.85\text{d}}$
$\frac{1087.35}{1087.5}$	Te ¹²⁹ ₅₂	$\frac{128.90678}{128.906598}$	52n	2+0	8+0	16+1	0+16	1+8	0+0	0+0	$\frac{-3.5309\text{M}}{\beta^- 69.6\text{m}}$
$\frac{1102.51}{1103.3}$	I ¹³¹ ₅₃	$\frac{130.90700}{130.906125}$	53n	2+0	8+0	18+0	0+16	0+9	0+0	0+0	$\frac{-3.167\text{M}}{\beta^- 8.0252\text{d}}$
$\frac{1117.59}{1118.9}$	Xe ¹³³ ₅₄	$\frac{132.90730}{132.905911}$	54n	2+0	8+0	18+0	0+16	1+9	0+0	0+0	$\frac{-3.064\text{M}}{\beta^- 5.2475\text{d}}$
$\frac{1132.59}{1134.2}$	Cs ¹³⁵ ₅₅	$\frac{134.90768}{134.905977}$	55n	2+0	8+0	18+0	2+15	0+10	0+0	0+0	$\frac{-2.5640\text{M}}{\beta^- 2.3 \cdot 10^6\text{a}}$
$\frac{1147.5}{1149.7}$	Ba ¹³⁷ ₅₆	$\frac{136.90817}{136.905827}$	56n	2+0	8+0	18+0	2+15	1+10	0+0	0+0	$\frac{-2.5029\text{M}}{st}$
$\frac{1162.34}{1164.6}$	La ¹³⁹ ₅₇	$\frac{138.90873}{138.906353}$	57n	2+0	8+0	18+0	4+14	0+11	0+0	0+0	$\frac{-2.0713\text{M}}{st}$
$\frac{1177.10}{1178.1}$	Ce ¹⁴¹ ₅₈	$\frac{140.90937}{140.908276}$	58n	2+0	8+0	18+0	4+14	1+11	0+0	0+0	$\frac{-138.8\text{K}}{\beta^- 32.508\text{d}}$
$\frac{1191.77}{1191.1}$	Pr ¹⁴³ ₅₉	$\frac{142.91011}{142.910817}$	59n	2+0	8+0	18+0	6+13	0+12	0+0	0+0	$\frac{1.7359\text{M}}{\beta^- 13.57\text{d}}$
$\frac{1204.80}{1204.8}$	Nd ¹⁴⁵ ₆₀	$\frac{144.912574}{144.912574}$	60n	2+0	8+0	18+0	6+13	0+12	1+0	0+0	$\frac{1.5793\text{M}}{st}$
$\frac{1217.98}{1217.8}$	Pm ¹⁴⁷ ₆₁	$\frac{146.91495}{146.915138}$	61n	2+0	8+0	18+0	7+12	1+13	0+0	0+0	$\frac{1.6009\text{M}}{\beta^- 2.6234\text{a}}$
$\frac{1230.79}{1231.3}$	Sm ¹⁴⁹ ₆₂	$\frac{148.91769}{148.917185}$	62n	2+0	8+0	18+0	7+12	1+13	1+0	0+0	$\frac{1.8713\text{M}}{\alpha > 2 \cdot 10^{15}\text{a}}$
$\frac{1243.77}{1244.1}$	Eu ¹⁵¹ ₆₃	$\frac{150.92025}{150.919850}$	63n	2+0	8+0	18+0	10+10	0+15	0+0	0+0	$\frac{1.9649\text{M}}{\alpha 1.7 \cdot 10^{18}\text{a}}$

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$\frac{1257.73}{1257.7}$	Gd ₆₄ ¹⁵³	$\frac{152.92175}{152.921749}$	64n	2+0	8+0	18+0	11+10	0+14	0+1	0+0	$\frac{1.8280\text{M}}{\text{ce } 240.4\text{d}}$
$\frac{1271.61}{1271.5}$	Tb ₆₅ ¹⁵⁵	$\frac{154.92334}{154.923505}$	65n	2+0	8+0	18+0	12+10	0+13	0+2	0+0	$\frac{980\text{K}}{\text{ce } 5.32\text{d}}$
$\frac{1285.66}{1285.0}$	Dy ₆₆ ¹⁵⁷	$\frac{156.92475}{156.925466}$	66n	2+0	8+0	18+0	12+10	1+13	0+2	0+0	$\frac{1.037\text{M}}{\text{ce } 8.14\text{h}}$
$\frac{1297.98}{1298.3}$	Ho ₆₇ ¹⁵⁹	$\frac{158.92801}{158.927712}$	67n	2+0	8+0	18+0	12+10	1+13	1+2	0+0	$\frac{1.494\text{M}}{\text{ce } 33.05\text{m}}$
$\frac{1311.86}{1311.5}$	Er ₆₈ ¹⁶¹	$\frac{160.92960}{160.929995}$	68n	2+0	8+0	18+0	14+9	0+14	1+2	0+0	$\frac{1.796\text{M}}{\text{ce } 3.21\text{h}}$
$\frac{1323.98}{1324.4}$	Tm ₆₉ ¹⁶³	$\frac{162.93308}{162.932651}$	69n	2+0	8+0	18+0	16+8	0+14	0+3	0+0	$\frac{2.176\text{M}}{\text{ce } 1.810\text{h}}$
$\frac{1337.33}{1337.3}$	Yb ₇₀ ¹⁶⁵	$\frac{164.93528}{164.93528}$	70n	2+0	8+0	18+0	16+8	0+15	1+1	0+1	$\frac{2.490\text{M}}{\text{ce } 9.90\text{m}}$
$\frac{1349.25}{1349.9}$	Lu ₇₁ ¹⁶⁷	$\frac{166.93893}{166.93827}$	71n	2+0	8+0	18+0	18+7	0+15	0+2	0+1	$\frac{2.800\text{M}}{\text{ce } 51.5\text{m}}$
$\frac{1362.08}{1362.4}$	Hf ₇₂ ¹⁶⁹	$\frac{168.94165}{168.94126}$	72n	2+0	8+0	18+0	18+7	0+15	0+3	1+0	$\frac{3.150\text{M}}{\text{ce } 3.24\text{m}}$
$\frac{1374.47}{1374.8}$	Ta ₇₃ ¹⁷¹	$\frac{170.94484}{170.94448}$	73n	2+0	8+0	18+0	18+7	1+15	1+2	0+1	$\frac{3.360\text{M}}{\text{ce } 23.3\text{m}}$
$\frac{1387.11}{1387.2}$	W ₇₄ ¹⁷³	$\frac{172.94775}{172.94769}$	74n	2+0	8+0	18+0	18+7	1+15	1+3	1+0	$\frac{3.560\text{M}}{\text{ce } 7.60\text{m}}$
$\frac{1398.62}{1399.1}$	Re ₇₅ ¹⁷⁵	$\frac{174.95189}{174.95138}$	75n	2+0	8+0	18+0	20+6	1+15	0+4	1+0	$\frac{4.010\text{M}}{\text{ce } 5.89\text{m}}$
$\frac{1410.70}{1411.1}$	Os ₇₆ ¹⁷⁷	$\frac{176.95541}{176.954965}$	76n	2+0	8+0	18+0	20+6	0+16	1+3	0+1	$\frac{4.350\text{M}}{\text{ce } 3.0\text{m}}$
$\frac{1423.06}{1422.6}$	Ir ₇₇ ¹⁷⁹	$\frac{178.95863}{178.959122}$	77n	2+0	8+0	18+0	22+5	0+16	1+4	1+0	$\frac{4.790\text{M}}{\text{ce } 79.0\text{s}}$
$\frac{1434.26}{1434.3}$	Pt ₇₈ ¹⁸¹	$\frac{180.96310}{180.963097}$	78n	2+0	8+0	18+0	24+4	0+16	0+5	1+0	$\frac{5.150\text{M}}{\text{ce } 52.0\text{s}}$
$\frac{1445.34}{1445.4}$	Au ₇₉ ¹⁸³	$\frac{182.96769}{182.967593}$	79n	2+0	8+0	18+0	24+4	0+16	1+5	1+0	$\frac{5.466\text{M}}{\text{ce } 42.8\text{s}}$
$\frac{1457.03}{1456.8}$	Hg ₈₀ ¹⁸⁵	$\frac{184.97163}{184.971899}$	80n	2+0	8+0	18+0	26+3	1+16	0+5	0+1	$\frac{5.774\text{M}}{\text{ce } 49.1\text{s}}$

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$\frac{1467.91}{1468.4}$	Tl ¹⁸⁷ ₈₁	$\frac{186.97644}{186.975906}$	81n	2+0	8+0	18+0	26+3	1+16	1+5	0+1	$\frac{5.318\text{M}}{ce\ 51\text{s}}$
$\frac{1479.75}{1479.2}$	Pb ¹⁸⁹ ₈₂	$\frac{188.98022}{188.98081}$	82n	2+0	8+0	18+0	26+3	1+16	1+6	1+0	$\frac{5.870\text{M}}{ce\ 39.0\text{s}}$
$\frac{1490.42}{1489.9}$	Bi ¹⁹¹ ₈₃	$\frac{190.98526}{190.985786}$	83n	2+0	8+0	18+0	28+2	1+16	0+7	1+0	$\frac{6.778\text{M}}{\alpha\ 12.4\text{s}}$
$\frac{1501.02}{1500.4}$	Po ¹⁹³ ₈₄	$\frac{192.99037}{192.99103}$	84n	2+0	8+0	18+0	28+2	1+16	1+7	1+0	$\frac{7.094\text{M}}{\alpha\ 245\text{ms}}$
$\frac{1510.50}{1510.9}$	At ¹⁹⁵ ₈₅	$\frac{194.99668}{194.996268}$	85n	2+0	8+0	18+0	30+1	1+16	1+7	0+1	$\frac{7.339\text{M}}{\alpha\ 328\text{ms}}$
$\frac{1521.03}{1521.3}$	Rn ¹⁹⁷ ₈₆	$\frac{197.00186}{197.00158}$	86n	2+0	8+0	18+0	32+0	1+16	0+8	0+1	$\frac{7.410\text{M}}{\alpha\ 53.0\text{ms}}$
$\frac{1531.50}{1531.4}$	Fr ¹⁹⁹ ₈₇	$\frac{199.00712}{199.00726}$	87n	2+0	8+0	18+0	32+0	1+16	1+8	0+1	$\frac{7.810\text{M}}{\alpha\ 12.0\text{ms}}$