

TAVOLA PERIODICA DEI NUCLEI ATOMICI
configurazione dei livelli nucleari degli isodiaferi $I = +2$

| $\frac{E_c(\text{MeV})}{E_s(\text{MeV})}$ | Sa | $\frac{m_c}{m_s}$ | n | 1 | 2 | 3 | 4 | 5 | 6 | 7 | $\frac{E_\alpha(\text{eV})}{T_{1/2}}$ |
|---|--------------------------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|---|
| $\frac{33.527}{29.268}$ | He ₂ ⁶ | $\frac{6.014317}{6.0188891}$ | 2n | 0+1 | 0+0 | 0+0 | 0+0 | 0+0 | 0+1 | 0+0 | $\frac{3.508M}{\beta^- 801ms}$ |
| $\frac{43.149}{41.277}$ | Li ₃ ⁸ | $\frac{8.020477}{8.0224874}$ | 3n | 0+1 | 0+0 | 0+0 | 0+0 | 0+0 | 1+1 | 0+0 | $\frac{-6.100M}{\beta^- 839.9ms}$ |
| $\frac{64.740}{64.977}$ | Be ₄ ¹⁰ | $\frac{10.013788}{10.013534}$ | 4n | 0+1 | 0+1 | 1+0 | 1+0 | 0+0 | 0+0 | 0+0 | $\frac{-7.4102M}{\beta^- 1.39 \cdot 10^6 a}$ |
| $\frac{79.861}{79.575}$ | B ₅ ¹² | $\frac{12.01404}{12.014352}$ | 5n | 2+0 | 1+1 | 0+0 | 0+1 | 0+0 | 0+0 | 0+0 | $\frac{-10.0018M}{\beta^- 20.20ms}$ |
| $\frac{104.201}{105.28}$ | C ₆ ¹⁴ | $\frac{14.004405}{14.003242}$ | 6n | 2+0 | 1+2 | 1+0 | 0+0 | 0+0 | 0+0 | 0+0 | $\frac{-12.0125M}{\beta^- 5700a}$ |
| $\frac{117.274}{117.98}$ | N ₇ ¹⁶ | $\frac{16.00686}{16.006102}$ | 7n | 2+0 | 1+2 | 1+0 | 1+0 | 0+0 | 0+0 | 0+0 | $\frac{-10110M}{\beta^- 7.13s}$ |
| $\frac{138.797}{139.81}$ | O ₈ ¹⁸ | $\frac{18.00024}{17.999161}$ | 8n | 2+0 | 4+1 | 0+1 | 0+0 | 0+0 | 0+0 | 0+0 | $\frac{-6.22762M}{st}$ |
| $\frac{154.388}{154.40}$ | F ₉ ²⁰ | $\frac{20.00000}{19.999981}$ | 9n | 2+0 | 4+1 | 1+1 | 0+0 | 0+0 | 0+0 | 0+0 | $\frac{-8.126M}{\beta^- 11.07s}$ |
| $\frac{177.852}{177.77}$ | Ne ₁₀ ²² | $\frac{21.99130}{21.991385}$ | 10n | 2+0 | 6+1 | 0+0 | 0+1 | 0+0 | 0+0 | 0+0 | $\frac{-9.66681M}{st}$ |
| $\frac{193.518}{193.52}$ | Na ₁₁ ²⁴ | $\frac{23.99097}{23.990963}$ | 11n | 2+0 | 4+2 | 1+0 | 1+0 | 1+0 | 0+0 | 0+0 | $\frac{-10.82541M}{\beta^- 14.997h}$ |
| $\frac{216.149}{216.68}$ | Mg ₁₂ ²⁶ | $\frac{25.98316}{25.982593}$ | 12n | 2+0 | 8+0 | 0+2 | 0+0 | 0+0 | 0+0 | 0+0 | $\frac{-10.61475M}{st}$ |
| $\frac{233.71}{232.68}$ | Al ₁₃ ²⁸ | $\frac{27.98080}{27.981910}$ | 13n | 2+0 | 8+0 | 1+2 | 0+0 | 0+0 | 0+0 | 0+0 | $\frac{-10.85744M}{\beta^- 2.2414m}$ |
| $\frac{251.573}{255.62}$ | Si ₁₄ ³⁰ | $\frac{29.97811}{29.973770}$ | 14n | 2+0 | 8+0 | 2+2 | 0+0 | 0+0 | 0+0 | 0+0 | $\frac{-10.64333M}{st}$ |
| $\frac{269.745}{270.85}$ | P ₁₅ ³² | $\frac{31.97510}{31.973907}$ | 15n | 2+0 | 8+0 | 3+2 | 0+0 | 0+0 | 0+0 | 0+0 | $\frac{-9.8793M}{\beta^- 14.262d}$ |
| $\frac{288.222}{291.84}$ | S ₁₆ ³⁴ | $\frac{33.97175}{33.967867}$ | 16n | 2+0 | 8+0 | 4+2 | 0+0 | 0+0 | 0+0 | 0+0 | $\frac{-7.92362M}{st}$ |
| $\frac{306.990}{306.79}$ | Cl ₁₇ ³⁶ | $\frac{35.96809}{35.968307}$ | 17n | 2+0 | 8+0 | 5+2 | 0+0 | 0+0 | 0+0 | 0+0 | $\frac{-7.64203M}{\beta^- 3.01 \cdot 10^5 a}$ |
| $\frac{325.993}{327.34}$ | Ar ₁₈ ³⁸ | $\frac{37.96418}{37.962732}$ | 18n | 2+0 | 8+0 | 6+2 | 0+0 | 0+0 | 0+0 | 0+0 | $\frac{-7.20799M}{st}$ |

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|---|----------------|------------------------------|-----|-----|-----|------|-----|-----|-----|-----|---|
| $\frac{341.590}{341.52}$ | K_{19}^{40} | $\frac{39.96393}{39.963998}$ | 19n | 2+0 | 8+0 | 6+2 | 1+0 | 0+0 | 0+0 | 0+0 | $\frac{-6.43842M}{\beta^- 1.25 \cdot 10^9 a}$ |
| $\frac{360.401}{361.90}$ | Ca_{20}^{42} | $\frac{41.96022}{41.95862}$ | 20n | 2+0 | 8+0 | 7+2 | 1+0 | 0+0 | 0+0 | 0+0 | $\frac{-6.2576M}{st}$ |
| $\frac{376.034}{376.52}$ | Sc_{21}^{44} | $\frac{43.95993}{43.95940}$ | 21n | 2+0 | 8+0 | 9+1 | 0+1 | 0+0 | 0+0 | 0+0 | $\frac{-6.7058M}{ce 3.97h}$ |
| $\frac{398.621}{398.19}$ | Ti_{22}^{46} | $\frac{45.95217}{45.95263}$ | 22n | 2+0 | 8+0 | 9+2 | 1+0 | 0+0 | 0+0 | 0+0 | $\frac{-8.0046M}{st}$ |
| $\frac{414.463}{413.90}$ | V_{23}^{48} | $\frac{47.95165}{47.95225}$ | 23n | 2+0 | 8+0 | 11+1 | 0+1 | 0+0 | 0+0 | 0+0 | $\frac{-9.0850M}{ce 15.9735d}$ |
| $\frac{433.984}{435.05}$ | Cr_{24}^{50} | $\frac{49.94719}{49.94604}$ | 24n | 2+0 | 8+0 | 10+2 | 2+0 | 0+0 | 0+0 | 0+0 | $\frac{-8.5598M}{2ce 1.3 \cdot 10^{18} a}$ |
| $\frac{450.228}{450.86}$ | Mn_{25}^{52} | $\frac{51.94624}{51.94556}$ | 25n | 2+0 | 8+0 | 13+1 | 0+0 | 0+1 | 0+0 | 0+0 | $\frac{-8.6553M}{ce 5.591d}$ |
| $\frac{471.857}{471.76}$ | Fe_{26}^{54} | $\frac{53.93951}{53.93961}$ | 26n | 2+0 | 8+0 | 12+2 | 1+0 | 1+0 | 0+0 | 0+0 | $\frac{-8.4168M}{st}$ |
| $\frac{486.165}{486.91}$ | Co_{27}^{56} | $\frac{55.94064}{55.93984}$ | 27n | 2+0 | 8+0 | 14+1 | 1+0 | 0+1 | 0+0 | 0+0 | $\frac{-7.7579M}{ce 77.236d}$ |
| $\frac{506.318}{506.46}$ | Ni_{28}^{58} | $\frac{57.93549}{57.93534}$ | 28n | 2+0 | 8+0 | 15+1 | 1+0 | 0+1 | 0+0 | 0+0 | $\frac{-6.3992M}{st}$ |
| $\frac{520.315}{519.94}$ | Cu_{29}^{60} | $\frac{59.93696}{59.93736}$ | 29n | 2+0 | 8+0 | 16+0 | 0+2 | 1+0 | 0+0 | 0+0 | $\frac{-4.7297M}{ce 23.70m}$ |
| $\frac{538.771}{538.12}$ | Zn_{30}^{62} | $\frac{61.93363}{61.93433}$ | 30n | 2+0 | 8+0 | 17+0 | 1+1 | 0+1 | 0+0 | 0+0 | $\frac{-3.3643M}{ce 9.186h}$ |
| $\frac{551.041}{551.15}$ | Ga_{31}^{64} | $\frac{63.93695}{63.93684}$ | 31n | 2+0 | 8+0 | 17+0 | 2+0 | 0+2 | 0+0 | 0+0 | $\frac{-2.9139M}{ce 2.627m}$ |
| $\frac{569.264}{569.30}$ | Ge_{32}^{66} | $\frac{65.93388}{65.93384}$ | 32n | 2+0 | 8+0 | 17+0 | 2+1 | 1+1 | 0+0 | 0+0 | $\frac{-2.8644M}{ce 2.26h}$ |
| $\frac{582.325}{581.93}$ | As_{33}^{68} | $\frac{67.93635}{67.93677}$ | 33n | 2+0 | 8+0 | 17+0 | 2+1 | 1+1 | 1+0 | 0+0 | $\frac{-2.4859M}{ce 151.6s}$ |
| $\frac{699.843}{600.44}$ | Se_{34}^{70} | $\frac{69.82668}{69.93339}$ | 34n | 2+0 | 8+0 | 18+0 | 3+0 | 1+1 | 0+1 | 0+0 | $\frac{-2.748M}{ce 41.1m}$ |
| $\frac{612.980}{612.77}$ | Br_{35}^{72} | $\frac{71.93642}{71.93664}$ | 35n | 2+0 | 8+0 | 18+0 | 2+0 | 2+2 | 1+0 | 0+0 | $\frac{-2.598M}{ce 78.6s}$ |

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|---|------------------------|-------------------------------|-----|-----|-----|------|------|-----|-----|-----|---|
| $\frac{631.383}{631.44}$ | Kr_{36}^{74} | $\frac{73.93315}{73.93308}$ | 36n | 2+0 | 8+0 | 18+0 | 4+0 | 1+2 | 1+0 | 0+0 | $\frac{-2.827\text{M}}{\text{ce } 11.50\text{m}}$ |
| $\frac{645.260}{644.96}$ | Rb_{37}^{76} | $\frac{75.93474}{75.93507}$ | 37n | 2+0 | 8+0 | 18+0 | 5+0 | 1+1 | 1+1 | 0+0 | $\frac{-3.836\text{M}}{\text{ce } 36.5\text{S}}$ |
| $\frac{662.742}{663.01}$ | Sr_{38}^{78} | $\frac{77.93247}{77.93218}$ | 38n | 2+0 | 8+0 | 18+0 | 6+0 | 2+1 | 0+1 | 0+0 | $\frac{-3.267\text{M}}{\text{ce } 160.0\text{S}}$ |
| $\frac{676.389}{676.41}$ | Y_{39}^{80} | $\frac{79.93430}{79.93428}$ | 39n | 2+0 | 8+0 | 17+0 | 7+1 | 3+0 | 0+1 | 0+0 | $\frac{-3.095\text{M}}{\text{ce } 30.10\text{S}}$ |
| $\frac{695.154}{694.74}$ | Zr_{40}^{82} | $\frac{81.93065}{81.93109}$ | 40n | 2+0 | 8+0 | 18+0 | 9+0 | 1+0 | 0+2 | 0+0 | $\frac{-3.190\text{M}}{\text{ce } 32.0\text{S}}$ |
| $\frac{707.858}{707.79}$ | Nb_{41}^{84} | $\frac{83.93350}{83.93357}$ | 41n | 2+0 | 8+0 | 18+0 | 9+0 | 1+0 | 1+2 | 0+0 | $\frac{-2.300\text{M}}{\text{ce } 9.80\text{S}}$ |
| $\frac{725.443}{725.83}$ | Mo_{42}^{86} | $\frac{85.93111}{85.93070}$ | 42n | 2+0 | 8+0 | 18+0 | 10+0 | 2+0 | 0+2 | 0+0 | $\frac{-2.590\text{M}}{\text{ce } 19.1\text{S}}$ |
| $\frac{739.354}{739.34}$ | Tc_{43}^{88} | $\frac{87.93267}{87.93268}$ | 43n | 2+0 | 8+0 | 18+0 | 10+0 | 3+0 | 0+2 | 0+0 | $\frac{-3.100\text{M}}{\text{ce } 5.80\text{S}}$ |
| $\frac{757.193}{757.30}$ | Ru_{44}^{90} | $\frac{89.93001}{89.92989}$ | 44n | 2+0 | 8+0 | 18+0 | 10+0 | 3+2 | 1+0 | 0+0 | $\frac{-3.198\text{M}}{\text{ce } 11.7\text{S}}$ |
| $\frac{771.055}{770.72}$ | Rh_{45}^{92} | $\frac{91.93162}{91.93198}$ | 45n | 2+0 | 8+0 | 18+0 | 10+0 | 4+2 | 1+0 | 0+0 | $\frac{-3.745\text{M}}{\text{ce } 4.66\text{S}}$ |
| $\frac{788.515}{789.07}$ | Pd_{46}^{94} | $\frac{93.92936}{93.92877}$ | 46n | 2+0 | 8+0 | 18+0 | 12+0 | 4+1 | 0+1 | 0+0 | $\frac{-3.644\text{M}}{\text{ce } 9.60\text{S}}$ |
| $\frac{802.319}{802.65}$ | Ag_{47}^{96} | $\frac{95.93103}{95.93068}$ | 47n | 2+0 | 8+0 | 18+0 | 12+0 | 5+1 | 0+1 | 0+0 | $\frac{-4.050\text{M}}{\text{ce } 4.40\text{S}}$ |
| $\frac{821.197}{821.06}$ | Cd_{48}^{98} | $\frac{97.92726}{97.92740}$ | 48n | 2+0 | 8+0 | 18+0 | 14+0 | 4+1 | 0+1 | 0+0 | $\frac{-3.940\text{M}}{\text{ce } 9.20\text{S}}$ |
| $\frac{833.326}{832.97}$ | In_{49}^{100} | $\frac{99.93073}{99.93111}$ | 49n | 2+0 | 8+0 | 18+0 | 15+0 | 3+0 | 1+2 | 0+0 | $\frac{-2.150\text{M}}{\text{ce } 5.90\text{S}}$ |
| $\frac{849.634}{849.08}$ | Sn_{50}^{102} | $\frac{101.92971}{101.93030}$ | 50n | 2+0 | 8+0 | 18+0 | 16+0 | 3+0 | 1+2 | 0+0 | $\frac{260\text{K}}{\text{ce } 3.80\text{S}}$ |
| $\frac{858.231}{858.70}$ | Sb_{51}^{104} | $\frac{103.93697}{103.93647}$ | 51n | 2+0 | 8+0 | 18+0 | 13+0 | 7+1 | 1+1 | 0+0 | $\frac{2.700\text{M}}{\text{ce } 0.44\text{S}}$ |
| $\frac{873.014}{873.10}$ | Te_{52}^{106} | $\frac{105.93759}{105.93750}$ | 52n | 2+0 | 8+0 | 18+0 | 14+0 | 8+0 | 0+2 | 0+0 | $\frac{4.290\text{M}}{\alpha \text{ } 70\mu\text{S}}$ |

1460

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|---|-----------------|-------------------------------|-----|-----|-----|------|------|------|-----|-----|---------------------------------------|
| $\frac{882.596}{882.89}$ | I_{53}^{108} | $\frac{107.94379}{107.94348}$ | 53n | 2+0 | 8+0 | 18+0 | 12+0 | 10+1 | 1+1 | 0+0 | $\frac{4.100M}{\alpha 36.0ms}$ |
| $\frac{897.271}{897.50}$ | Xe_{54}^{110} | $\frac{109.94453}{109.94428}$ | 54n | 2+0 | 8+0 | 18+0 | 13+0 | 11+0 | 0+2 | 0+0 | $\frac{3.875M}{\alpha 93.0ms}$ |
| $\frac{907.666}{907.25}$ | Cs_{55}^{112} | $\frac{111.94986}{111.95030}$ | 55n | 2+0 | 8+0 | 18+0 | 13+0 | 10+0 | 2+2 | 0+0 | $\frac{3.930M}{p 0.50ms}$ |
| $\frac{922.482}{922.26}$ | Ba_{56}^{114} | $\frac{113.95044}{113.95068}$ | 56n | 2+0 | 8+0 | 18+0 | 13+0 | 12+0 | 1+2 | 0+0 | $\frac{3.530M}{ce 0.43s}$ |