

TAVOLA PERIODICA DEI NUCLEI ATOMICI

configurazione dei livelli nucleari degli isotopi **MENDELEVIO Z = 101-a**

$\frac{E_c(\text{MeV})}{E_s(\text{MeV})}$	Sa	$\frac{m_c}{m_s}$	n	1	2	3	4	5	6	7	$\frac{E_p(\text{eV})}{p \cdot T_{1/2}}$
$\frac{1800.38}{-}$	Md ₁₀₁ ²⁴²	$\frac{242.07929}{-}$	101n	2+0	8+0	18+0	32+0	0+24	1+15	0+1	—
$\frac{1808.93}{-}$	Md ₁₀₁ ²⁴³	$\frac{243.07878}{-}$	101n	2+0	8+0	18+0	30+1	1+24	1+15	0+1	—
$\frac{1815.54}{-}$	Md ₁₀₁ ²⁴⁴	$\frac{244.08035}{-}$	101n	2+0	8+0	18+0	30+1	1+24	0+16	0+1	—
$\frac{1823.31}{1823.2}$	Md ₁₀₁ ²⁴⁵	$\frac{245.08067}{245.080829}$	101n	2+0	8+0	18+0	28+2	1+24	0+17	1+0	$\frac{-}{FS0.90\text{ms}}$
$\frac{1829.92}{1830.3}$	Md ₁₀₁ ²⁴⁶	$\frac{246.08224}{246.081886}$	101n	2+0	8+0	18+0	26+3	1+24	1+17	1+0	$\frac{8.890\text{M}}{\alpha 0.90\text{s}}$
$\frac{1838.47}{1838.6}$	Md ₁₀₁ ²⁴⁷	$\frac{247.08173}{247.081635}$	101n	2+0	8+0	18+0	26+3	0+25	1+17	1+0	$\frac{8.764\text{M}}{\alpha 1.20\text{s}}$
$\frac{1846.24}{1845.5}$	Md ₁₀₁ ²⁴⁸	$\frac{248.08205}{248.082823}$	101n	2+0	8+0	18+0	26+3	0+25	1+18	0+0	$\frac{8.700\text{M}}{\alpha 13.0\text{s}}$
$\frac{1852.86}{1853.4}$	Md ₁₀₁ ²⁴⁹	$\frac{249.08361}{249.083013}$	101n	2+0	8+0	18+0	26+3	0+25	0+19	0+0	$\frac{8.460\text{M}}{\alpha 21.70\text{s}}$
$\frac{1859.47}{1860.2}$	Md ₁₀₁ ²⁵⁰	$\frac{250.08518}{250.084419}$	101n	2+0	8+0	18+0	24+4	0+25	1+19	0+0	$\frac{4.600\text{M}}{ce 25.0\text{s}}$
$\frac{1866.08}{1867.9}$	Md ₁₀₁ ²⁵¹	$\frac{251.08675}{251.084839}$	101n	2+0	8+0	18+0	24+4	0+25	0+20	0+0	$\frac{3.013\text{M}}{ce 4.30\text{m}}$
$\frac{1872.69}{1874.3}$	Md ₁₀₁ ²⁵²	$\frac{252.08831}{252.08656}$	101n	2+0	8+0	18+0	22+5	0+25	1+20	0+0	$\frac{3.690\text{M}}{ce 2.30\text{m}}$
$\frac{1879.30}{1881.7}$	Md ₁₀₁ ²⁵³	$\frac{253.08988}{253.08728}$	101n	2+0	8+0	18+0	22+5	0+25	0+21	0+0	$\frac{1.830\text{M}}{ce 6.0\text{m}}$
$\frac{1885.91}{1887.6}$	Md ₁₀₁ ²⁵⁴	$\frac{254.09145}{254.089656}$	101n	2+0	8+0	18+0	20+6	0+25	1+21	0+0	$\frac{2.610\text{M}}{ce 28.0\text{m}}$
$\frac{1892.52}{1894.3}$	Md ₁₀₁ ²⁵⁵	$\frac{255.09302}{255.091083}$	101n	2+0	8+0	18+0	20+6	0+25	0+22	0+0	$\frac{1.043\text{M}}{ce 27.0\text{m}}$
$\frac{1899.13}{1899.6}$	Md ₁₀₁ ²⁵⁶	$\frac{256.09459}{256.09409}$	101n	2+0	8+0	18+0	18+7	0+25	1+22	0+0	$\frac{2.120\text{M}}{ce 77.0\text{m}}$
$\frac{1905.75}{1906.3}$	Md ₁₀₁ ²⁵⁷	$\frac{257.09615}{257.09556}$	101n	2+0	8+0	18+0	18+7	0+25	0+23	0+0	$\frac{407.0\text{K}}{ce 5.52\text{h}}$
$\frac{1912.35}{1911.7}$	Md ₁₀₁ ²⁵⁸	$\frac{258.09773}{258.09843}$	101n	2+0	8+0	18+0	16+8	0+25	1+23	0+0	$\frac{7.2713\text{M}}{\alpha 51.5\text{d}}$

$\frac{E_c(\text{MeV})}{E_s(\text{MeV})}$	Sa	$\frac{m_c}{m_s}$	n	1	2	3	4	5	6	7	$\frac{E_p(\text{eV})}{p-T_{1/2}}$
$\frac{1917.03}{1917.8}$	Md ₁₀₁ ²⁵⁹	$\frac{259.10137}{259.10054}$	101n	2+0	8+0	18+0	14+9	1+24	1+24	0+0	$\frac{-}{FS\ 96.0m}$
$\frac{1923.64}{1922.9}$	Md ₁₀₁ ²⁶⁰	$\frac{260.10294}{260.10373}$	101n	2+0	8+0	18+0	14+9	1+24	0+25	0+0	$\frac{-}{FS\ 31.8d}$
$\frac{1928.32}{1929.1}$	Md ₁₀₁ ²⁶¹	$\frac{261.10658}{261.10572}$	101n	2+0	8+0	18+0	14+9	0+24	0+26	0+0	$\frac{6.800M}{\alpha\ 40m}$
$\frac{1933.77}{1934.3}$	Md ₁₀₁ ²⁶²	$\frac{262.10939}{262.10886}$	101n	2+0	8+0	18+0	12+10	0+24	0+26	1+0	$\frac{6.500M}{\alpha\ 3m}$
$\frac{1939.22}{-}$	Md ₁₀₁ ²⁶³	$\frac{263.11221}{-}$	101n	2+0	8+0	18+0	12+10	0+24	0+26	0+1	$\frac{1.562M}{\beta^-}$
$\frac{1945.82}{-}$	Md ₁₀₁ ²⁶⁴	$\frac{264.11379}{-}$	101n	2+0	8+0	18+0	10+11	0+24	1+26	0+1	—
$\frac{1950.50}{-}$	Md ₁₀₁ ²⁶⁵	$\frac{265.11743}{-}$	101n	2+0	8+0	18+0	8+12	1+23	1+27	0+1	—
$\frac{1957.12}{-}$	Md ₁₀₁ ²⁶⁶	$\frac{266.11898}{-}$	101n	2+0	8+0	18+0	8+12	1+23	0+28	0+1	—
$\frac{1961.80}{-}$	Md ₁₀₁ ²⁶⁷	$\frac{267.12263}{-}$	101n	2+0	8+0	18+0	8+12	0+23	0+29	0+1	—
$\frac{1968.40}{-}$	Md ₁₀₁ ²⁶⁸	$\frac{268.12420}{-}$	101n	2+0	8+0	18+0	6+13	0+23	1+29	0+1	—
$\frac{1973.08}{-}$	Md ₁₀₁ ²⁶⁹	$\frac{269.12785}{-}$	101n	2+0	8+0	18+0	4+14	1+22	1+30	0+1	—

$E_c(\text{MeV})$ = valore calcolato dell'energia di legame

$E_s(\text{MeV})$ = valore sperimentale dell'energia di legame

m_c = valore calcolato della massa atomica

m_s = valore sperimentale della massa atomica

n = numero di neutroni centrali attivi

1-7 = numero quantico associato al livello

$p + d$ = (numero di protoni) + (numero di deutoni) in orbita

$p - T_{1/2}$ = particella emessa – periodo di dimezzamento

$E_p(\text{eV})$ = energia della particella emessa