

TAVOLA PERIODICA DEI NUCLEI ATOMICI

configurazione dei livelli nucleari degli isotopi **FERMIO Z = 100-a**

$\frac{E_c(\text{MeV})}{E_s(\text{MeV})}$	Sa	$\frac{m_c}{m_s}$	n	1	2	3	4	5	6	7	$\frac{E_p(\text{eV})}{p-T_{1/2}}$
$\frac{1783.80}{-}$	Fm ₁₀₀ ²³⁹	$\frac{239.07194}{-}$	100n	2+0	8+0	18+0	32+0	0+24	1+14	0+1	—
$\frac{1792.32}{-}$	Fm ₁₀₀ ²⁴⁰	$\frac{240.07146}{-}$	100n	2+0	8+0	18+0	30+1	1+24	1+14	0+1	—
$\frac{1798.92}{-}$	Fm ₁₀₀ ²⁴¹	$\frac{241.07304}{-}$	100n	2+0	8+0	18+0	30+1	1+24	0+15	0+1	$\frac{-}{FS\ 0.73\text{ms}}$
$\frac{1806.67}{1806.6}$	Fm ₁₀₀ ²⁴²	$\frac{242.07338}{242.07343}$	100n	2+0	8+0	18+0	28+2	1+24	0+16	1+0	$\frac{-}{FS < 4\mu\text{s}}$
$\frac{1814.03}{1813.8}$	Fm ₁₀₀ ²⁴³	$\frac{243.07414}{243.074353}$	100n	2+0	8+0	18+0	28+2	0+25	1+15	0+1	$\frac{8.690}{\alpha\ 231\text{ms}}$
$\frac{1821.79}{1822.2}$	Fm ₁₀₀ ²⁴⁴	$\frac{244.07448}{244.074084}$	100n	2+0	8+0	18+0	26+3	0+25	1+16	1+0	$\frac{-}{FS\ 3.12\text{ms}}$
$\frac{1828.39}{1829.0}$	Fm ₁₀₀ ²⁴⁵	$\frac{245.07606}{245.075385}$	100n	2+0	8+0	18+0	26+3	0+25	0+17	1+0	$\frac{8.440\text{M}}{\alpha\ 4.20\text{s}}$
$\frac{1836.15}{1837.2}$	Fm ₁₀₀ ²⁴⁶	$\frac{246.07639}{246.075299}$	100n	2+0	8+0	18+0	26+3	0+25	0+18	0+0	$\frac{8.377\text{M}}{\alpha\ 1.54\text{s}}$
$\frac{1842.74}{1843.8}$	Fm ₁₀₀ ²⁴⁷	$\frac{247.07798}{247.076847}$	100n	2+0	8+0	18+0	24+4	0+25	1+18	0+0	$\frac{8.258\text{M}}{\alpha\ 31.0\text{s}}$
$\frac{1849.34}{1851.5}$	Fm ₁₀₀ ²⁴⁸	$\frac{248.07956}{248.077195}$	100n	2+0	8+0	18+0	24+4	0+25	0+19	0+0	$\frac{7.996\text{M}}{\alpha\ 36.0\text{s}}$
$\frac{1855.94}{1857.9}$	Fm ₁₀₀ ²⁴⁹	$\frac{249.08114}{249.079033}$	100n	2+0	8+0	18+0	22+5	0+25	1+19	0+0	$\frac{2.340\text{M}}{ce\ 2.60\text{m}}$
$\frac{1862.53}{1865.5}$	Fm ₁₀₀ ²⁵⁰	$\frac{250.08273}{250.079521}$	100n	2+0	8+0	18+0	22+5	0+25	0+20	0+0	$\frac{7.556\text{M}}{\alpha\ 30.0\text{m}}$
$\frac{1869.13}{1871.7}$	Fm ₁₀₀ ²⁵¹	$\frac{251.08431}{251.08155}$	100n	2+0	8+0	18+0	20+6	0+25	1+20	0+0	$\frac{1.440\text{M}}{ce\ 5.30\text{h}}$
$\frac{1875.73}{1878.9}$	Fm ₁₀₀ ²⁵²	$\frac{252.08589}{252.08249}$	100n	2+0	8+0	18+0	20+6	0+25	0+21	0+0	$\frac{7.1527\text{M}}{\alpha\ 25.39\text{h}}$
$\frac{1882.32}{1884.5}$	Fm ₁₀₀ ²⁵³	$\frac{253.08748}{253.08514}$	100n	2+0	8+0	18+0	18+7	0+25	1+21	0+0	$\frac{335.0\text{K}}{ce\ 3.00\text{d}}$
$\frac{1888.92}{1891.0}$	Fm ₁₀₀ ²⁵⁴	$\frac{254.08906}{254.08683}$	100n	2+0	8+0	18+0	18+7	0+25	0+22	0+0	$\frac{7.3075\text{M}}{\alpha\ 3.240\text{h}}$

$\frac{E_c(\text{MeV})}{E_s(\text{MeV})}$	Sa	$\frac{m_c}{m_s}$	n	1	2	3	4	5	6	7	$\frac{E_p(\text{eV})}{p-T_{1/2}}$
$\frac{1895.51}{1896.2}$	Fm ₁₀₀ ²⁵⁵	$\frac{255.09065}{255.08991}$	100n	2+0	8+0	18+0	16+8	0+25	1+22	0+0	$\frac{7.2397M}{a 20.07h}$
$\frac{1902.11}{1902.5}$	Fm ₁₀₀ ²⁵⁶	$\frac{256.09223}{256.09181}$	100n	2+0	8+0	18+0	16+8	0+25	0+23	0+0	$\frac{-}{FS 157.6m}$
$\frac{1908.71}{1907.5}$	Fm ₁₀₀ ²⁵⁷	$\frac{257.09381}{257.09511}$	100n	2+0	8+0	18+0	14+9	0+25	1+23	0+0	$\frac{6.8635}{a 100.5d}$
$\frac{1913.38}{1913.7}$	Fm ₁₀₀ ²⁵⁸	$\frac{258.09746}{258.097076}$	100n	2+0	8+0	18+0	12+10	1+24	1+24	0+0	$\frac{-}{FS 370\mu s}$
$\frac{1918.05}{1918.5}$	Fm ₁₀₀ ²⁵⁹	$\frac{259.10111}{259.10060}$	100n	2+0	8+0	18+0	12+10	0+24	1+25	0+0	$\frac{-}{FS 1.5s}$
$\frac{1924.25}{1924.7}$	Fm ₁₀₀ ²⁶⁰	$\frac{260.10312}{260.10268}$	100n	2+0	8+0	18+0	10+11	1+24	1+24	0+1	$\frac{-}{FS 4ms}$
$\frac{1928.10}{-}$	Fm ₁₀₀ ²⁶¹	$\frac{261.10765}{-}$	100n	2+0	8+0	18+0	8+12	1+23	1+26	1+0	$\frac{1.002M}{\beta^-}$
$\frac{1934.70}{-}$	Fm ₁₀₀ ²⁶²	$\frac{262.10923}{-}$	100n	2+0	8+0	18+0	8+12	1+23	0+27	1+0	$\frac{382K}{\beta^-}$
$\frac{1939.40}{-}$	Fm ₁₀₀ ²⁶³	$\frac{263.11285}{-}$	100n	2+0	8+0	18+0	8+12	0+23	0+28	1+0	$\frac{602K}{\beta^-}$
$\frac{1946.78}{-}$	Fm ₁₀₀ ²⁶⁴	$\frac{264.11359}{-}$	100n	2+0	8+0	18+0	6+13	1+23	1+27	0+1	—
$\frac{1951.45}{-}$	Fm ₁₀₀ ²⁶⁵	$\frac{265.11725}{-}$	100n	2+0	8+0	18+0	6+13	0+23	1+28	0+1	—
$\frac{1958.05}{-}$	Fm ₁₀₀ ²⁶⁶	$\frac{266.11883}{-}$	100n	2+0	8+0	18+0	6+13	0+23	0+29	0+1	—

$E_c(\text{MeV})$ = valore calcolato 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