

TAVOLA PERIODICA DEI NUCLEI ATOMICI

configurazione dei livelli nucleari degli isotopi **RADON Z = 86-a**

$\frac{E_c(\text{MeV})}{E_s(\text{MeV})}$	Sa	$\frac{m_c}{m_s}$	n	1	2	3	4	5	6	7	$\frac{E_p(\text{eV})}{P-T_{1/2}}$
$\frac{1502.08}{1501.6}$	Rn ₈₆ ¹⁹⁵	$\frac{195.00488}{195.00544}$	86n	2+0	8+0	18+0	32+0	1+14	1+9	1+0	$\frac{7.690M}{\alpha 6.0ms}$
$\frac{1512.83}{1512.7}$	Rn ₈₆ ¹⁹⁶	$\frac{196.002004}{196.002115}$	86n	2+0	8+0	18+0	32+0	2+15	0+8	0+1	$\frac{7.617M}{\alpha 4.7ms}$
$\frac{1521.03}{1521.3}$	Rn ₈₆ ¹⁹⁷	$\frac{197.00186}{197.00158}$	86n	2+0	8+0	18+0	32+0	1+16	0+8	0+1	$\frac{7.410M}{\alpha 53ms}$
$\frac{1532.15}{1532.1}$	Rn ₈₆ ¹⁹⁸	$\frac{197.99859}{197.998679}$	86n	2+0	8+0	18+0	30+1	1+17	0+8	1+0	$\frac{7.349M}{\alpha 65.0ms}$
$\frac{1540.35}{1540.4}$	Rn ₈₆ ¹⁹⁹	$\frac{198.99846}{198.99837}$	86n	2+0	8+0	18+0	30+1	0+18	0+8	1+0	$\frac{7.140M}{\alpha 0.59s}$
$\frac{1550.36}{1551.0}$	Rn ₈₆ ²⁰⁰	$\frac{199.99637}{199.995699}$	86n	2+0	8+0	18+0	28+2	0+19	1+7	1+0	$\frac{7.0433M}{\alpha 1.03s}$
$\frac{1559.29}{1559.1}$	Rn ₈₆ ²⁰¹	$\frac{200.99545}{200.99563}$	86n	2+0	8+0	18+0	28+2	0+20	1+6	0+1	$\frac{6.8607M}{\alpha 7.0s}$
$\frac{1569.31}{1569.4}$	Rn ₈₆ ²⁰²	$\frac{201.99336}{201.993263}$	86n	2+0	8+0	18+0	28+2	0+21	0+6	0+1	$\frac{6.7737M}{\alpha 9.70s}$
$\frac{1577.51}{1577.4}$	Rn ₈₆ ²⁰³	$\frac{202.99322}{202.993387}$	86n	2+0	8+0	18+0	26+3	1+21	0+6	0+1	$\frac{6.6298M}{\alpha 44.0s}$
$\frac{1587.53}{1587.3}$	Rn ₈₆ ²⁰⁴	$\frac{203.99113}{203.991429}$	86n	2+0	8+0	18+0	24+4	1+22	1+5	0+1	$\frac{6.5464M}{\alpha 74.5s}$
$\frac{1594.99}{1595.1}$	Rn ₈₆ ²⁰⁵	$\frac{204.99179}{204.99172}$	86n	2+0	8+0	18+0	22+5	1+22	1+6	1+0	$\frac{5.260M}{ce 170s}$
$\frac{1605.02}{1604.5}$	Rn ₈₆ ²⁰⁶	$\frac{205.98968}{205.990214}$	86n	2+0	8+0	18+0	22+5	1+23	0+6	1+0	$\frac{6.3838M}{\alpha 5.67m}$
$\frac{1612.11}{1612.1}$	Rn ₈₆ ²⁰⁷	$\frac{206.990734}{206.990734}$	86n	2+0	8+0	18+0	22+5	0+24	1+5	0+1	$\frac{4.592M}{ce 9.25m}$
$\frac{1621.41}{1621.2}$	Rn ₈₆ ²⁰⁸	$\frac{207.98942}{207.989642}$	86n	2+0	8+0	18+0	20+6	1+24	0+6	1+0	$\frac{6.2607M}{\alpha 24.35m}$
$\frac{1628.88}{1628.6}$	Rn ₈₆ ²⁰⁹	$\frac{208.99006}{208.990415}$	86n	2+0	8+0	18+0	20+6	1+24	0+7	0+0	$\frac{3.954M}{ce 25.8m}$
$\frac{1637.08}{1637.3}$	Rn ₈₆ ²¹⁰	$\frac{209.98992}{209.989696}$	86n	2+0	8+0	18+0	20+6	0+25	0+7	0+0	$\frac{6.1589M}{\alpha 2.40h}$

$\frac{E_c(\text{MeV})}{E_s(\text{MeV})}$	Sa	$\frac{m_c}{m_s}$	n	1	2	3	4	5	6	7	$\frac{E_p(\text{eV})}{p \cdot T_{1/2}}$
$\frac{1643.45}{1644.5}$	Rn ₈₆ ²¹¹	$\frac{210.99175}{210.990601}$	86n	2+0	8+0	18+0	18+7	0+25	1+7	0+0	$\frac{2.892M}{ce 14.6h}$
$\frac{1649.82}{1652.5}$	Rn ₈₆ ²¹²	$\frac{211.99358}{211.990704}$	86n	2+0	8+0	18+0	18+7	0+25	0+8	0+0	$\frac{6.385M}{\alpha 23.9m}$
$\frac{1656.19}{1657.6}$	Rn ₈₆ ²¹³	$\frac{212.99540}{212.993883}$	86n	2+0	8+0	18+0	16+8	0+25	1+8	0+0	$\frac{8.243M}{\alpha 19.5ms}$
$\frac{1662.56}{1664.3}$	Rn ₈₆ ²¹⁴	$\frac{213.99723}{213.995363}$	86n	2+0	8+0	18+0	16+8	0+25	0+9	0+0	$\frac{9.208M}{\alpha 270ns}$
$\frac{1668.92}{1669.2}$	Rn ₈₆ ²¹⁵	$\frac{214.99907}{214.998745}$	86n	2+0	8+0	18+0	14+9	0+25	1+9	0+0	$\frac{8.839M}{\alpha 2.30m}$
$\frac{1675.30}{1675.9}$	Rn ₈₆ ²¹⁶	$\frac{216.000883}{216.000274}$	86n	2+0	8+0	18+0	14+9	0+25	0+10	0+0	$\frac{8.200M}{\alpha 45.0\mu s}$
$\frac{1680.56}{1680.5}$	Rn ₈₆ ²¹⁷	$\frac{217.00390}{217.003928}$	86n	2+0	8+0	18+0	12+10	0+25	0+10	1+0	$\frac{7.887M}{\alpha 540\mu s}$
$\frac{1686.93}{1687.0}$	Rn ₈₆ ²¹⁸	$\frac{218.00573}{218.005601}$	86n	2+0	8+0	18+0	10+11	0+25	1+10	1+0	$\frac{7.2625M}{\alpha 3.50ms}$
$\frac{1691.47}{1691.5}$	Rn ₈₆ ²¹⁹	$\frac{219.00952}{219.009480}$	86n	2+0	8+0	18+0	8+12	1+24	1+11	1+0	$\frac{6.9461M}{\alpha 3.96s}$
$\frac{1697.84}{1697.8}$	Rn ₈₆ ²²⁰	$\frac{220.01135}{220.011394}$	86n	2+0	8+0	18+0	8+12	1+24	0+12	1+0	$\frac{6.40466M}{\alpha 55.6s}$
$\frac{1701.67}{1702.0}$	Rn ₈₆ ²²¹	$\frac{221.01590}{221.015537}$	86n	2+0	8+0	18+0	8+12	1+23	0+14	0+0	$\frac{1.195M}{\beta^- 25.0m}$
$\frac{1708.03}{1708.2}$	Rn ₈₆ ²²²	$\frac{222.01774}{222.017578}$	86n	2+0	8+0	18+0	6+13	1+23	1+14	0+0	$\frac{5.5903M}{\alpha 3.8235d}$
$\frac{1712.58}{1712.3}$	Rn ₈₆ ²²³	$\frac{223.02152}{223.02179}$	86n	2+0	8+0	18+0	6+13	0+23	1+15	0+0	$\frac{2.012M}{\beta^- 24.3m}$
$\frac{1718.95}{1718.3}$	Rn ₈₆ ²²⁴	$\frac{224.02334}{224.02409}$	86n	2+0	8+0	18+0	6+13	0+23	0+16	0+0	$\frac{7.800M}{\beta^- 107m}$
$\frac{1721.67}{1722.3}$	Rn ₈₆ ²²⁵	$\frac{225.02909}{225.02844}$	86n	2+0	8+0	18+0	4+14	0+22	1+17	0+0	$\frac{2.740M}{\beta^- 4.66m}$
$\frac{1728.04}{1728.1}$	Rn ₈₆ ²²⁶	$\frac{226.03091}{226.03089}$	86n	2+0	8+0	18+0	4+14	0+22	0+18	0+0	$\frac{1.370M}{\beta^- 7.40m}$

$\frac{E_c(\text{MeV})}{E_s(\text{MeV})}$	Sa	$\frac{m_c}{m_s}$	n	1	2	3	4	5	6	7	$\frac{E_p(\text{eV})}{p - T_{1/2}}$
$\frac{1732.20}{1731.9}$	Rn ₈₆ ²²⁷	$\frac{227.0351}{227.03541}$	86n	2+0	8+0	18+0	2+15	0+22	1+17	0+1	$\frac{3.220M}{\beta^- 20.8s}$
$\frac{1737.85}{-}$	Rn ₈₆ ²²⁸	$\frac{228.03771}{-}$	86n	2+0	8+0	18+0	0+16	1+21	0+19	1+0	$\frac{1.960M}{\beta^- 65.0s}$
$\frac{1741.29}{-}$	Rn ₈₆ ²²⁹	$\frac{229.04268}{-}$	86n	2+0	8+0	18+0	0+16	0+21	1+19	0+1	$\frac{3.550M}{\beta^- 12.0s}$
$\frac{1746.93}{-}$	Rn ₈₆ ²³⁰	$\frac{230.04529}{-}$	86n	2+0	8+0	18+0	0+16	1+20	0+21	1+0	$\frac{2.600M}{\beta^- >300ns}$

$E_c(\text{MeV})$ = 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

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