

**TAVOLA PERIODICA DEI NUCLEI ATOMICI**  
**configurazione dei livelli nucleari degli isotopi UNUNBIO Z = 112-a**

$\frac{E_c(\text{MeV})}{E_s(\text{MeV})}$	Sa	$\frac{m_c}{m_s}$	n	1	2	3	4	5	6	7	$\frac{E_p(\text{eV})}{p \cdot T_{1/2}}$
$\frac{1955.53}{-}$	$\text{Uu}_{112}^{271}$	$\frac{271.15478}{-}$	112n	2+0	8+0	18+0	32+0	5+22	0+24	0+1	—
$\frac{1962.29}{-}$	$\text{Uu}_{112}^{272}$	$\frac{272.15619}{-}$	112n	2+0	8+0	18+0	32+0	3+23	1+24	0+1	—
$\frac{1967.05}{-}$	$\text{Uu}_{112}^{273}$	$\frac{273.15974}{-}$	112n	2+0	8+0	18+0	32+0	2+23	1+25	0+1	—
$\frac{1975.80}{-}$	$\text{Uu}_{112}^{274}$	$\frac{274.15901}{-}$	112n	2+0	8+0	18+0	32+0	1+24	1+25	0+1	—
$\frac{1982.56}{-}$	$\text{Uu}_{112}^{275}$	$\frac{275.16042}{-}$	112n	2+0	8+0	18+0	32+0	1+24	0+26	0+1	—
$\frac{1989.31}{-}$	$\text{Uu}_{112}^{276}$	$\frac{276.16184}{-}$	112n	2+0	8+0	18+0	30+1	1+24	1+26	0+1	$\frac{12.20M}{\alpha}$
$\frac{1996.07}{1995.4}$	$\text{Uu}_{112}^{277}$	$\frac{277.16325}{277.16394}$	112n	2+0	8+0	18+0	30+1	1+24	0+27	0+1	$\frac{11.62M}{\alpha 1.10ms}$
$\frac{2002.8}{2003.1}$	$\text{Uu}_{112}^{278}$	$\frac{278.16469}{278.16432}$	112n	2+0	8+0	18+0	28+2	1+24	1+27	0+1	$\frac{11.38M}{\alpha 10ms}$
$\frac{2009.60}{2009.1}$	$\text{Uu}_{112}^{279}$	$\frac{279.16605}{279.16655}$	112n	2+0	8+0	18+0	28+2	1+24	0+28	0+1	$\frac{11.09M}{\alpha 100ms}$
$\frac{2016.30}{2016.7}$	$\text{Uu}_{112}^{280}$	$\frac{280.16752}{280.16704}$	112n	2+0	8+0	18+0	26+3	1+24	1+28	0+1	$\frac{10.73M}{\alpha 1S}$
$\frac{2023.10}{-}$	$\text{Uu}_{112}^{281}$	$\frac{281.16889}{-}$	112n	2+0	8+0	18+0	26+3	1+24	0+29	0+1	$\frac{10.46M}{\alpha 10S}$
$\frac{2029.80}{2030.4}$	$\text{Uu}_{112}^{282}$	$\frac{282.17036}{282.16976}$	112n	2+0	8+0	18+0	24+4	1+24	1+29	0+1	$\frac{-}{FS 0.5ms}$
$\frac{2036.60}{2036.5}$	$\text{Uu}_{112}^{283}$	$\frac{283.17172}{283.17179}$	112n	2+0	8+0	18+0	24+4	1+24	0+30	0+1	$\frac{9.660M}{\alpha 4.0S}$
$\frac{2043.30}{2044.1}$	$\text{Uu}_{112}^{284}$	$\frac{284.17320}{284.17238}$	112n	2+0	8+0	18+0	22+5	1+24	1+30	0+1	$\frac{-}{FS 101ms}$
$\frac{2050.10}{2050.5}$	$\text{Uu}_{112}^{285}$	$\frac{285.17456}{285.17410}$	112n	2+0	8+0	18+0	22+5	1+24	0+31	0+1	$\frac{9.330M}{\alpha 30.0S}$
$\frac{2056.90}{-}$	$\text{Uu}_{112}^{286}$	$\frac{286.17593}{-}$	112n	2+0	8+0	18+0	20+6	1+24	1+31	0+1	—
$\frac{2063.60}{-}$	$\text{Uu}_{112}^{287}$	$\frac{287.17740}{-}$	112n	2+0	8+0	18+0	20+6	1+24	0+32	0+1	—

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$\frac{2072.36}{-}$	$\text{Uu}_{112}^{288}$	$\frac{288.17666}{-}$	112n	2+0	8+0	18+0	20+6	0+25	0+32	0+1	—
$\frac{2079.11}{-}$	$\text{Uu}_{112}^{289}$	$\frac{289.17808}{-}$	112n	2+0	8+0	18+0	18+7	0+25	1+32	0+1	—
$\frac{2085.87}{-}$	$\text{Uu}_{112}^{290}$	$\frac{290.17949}{-}$	112n	2+0	8+0	18+0	18+7	0+25	0+33	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

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

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