

TAVOLA PERIODICA DEI NUCLEI ATOMICI

configurazione dei livelli nucleari degli isotopi **ARGENTO Z = 47-a**

$\frac{E_c(\text{MeV})}{E_s(\text{MeV})}$	Sa	$\frac{m_c}{m_s}$	n	1	2	3	4	5	6	7	$\frac{E_p(\text{eV})}{p-T_{1/2}}$
$\frac{760.518}{760.64}$	Ag ⁹³ ₄₇	$\frac{92.94991}{92.94978}$	$\frac{47}{46n}$	2+0	8+0	18+0	6+0	8+0	5+0	0+0	$\frac{12.90M}{ce >1.5\mu s}$
$\frac{774.824}{775.23}$	Ag ⁹⁴ ₄₇	$\frac{93.94322}{93.94278}$	47n	2+0	8+0	18+0	7+0	9+0	3+0	0+0	$\frac{13.70M}{ce 26.0ms}$
$\frac{790.527}{790.11}$	Ag ⁹⁵ ₄₇	$\frac{94.93503}{94.93548}$	47n	2+0	8+0	18+0	10+0	8+0	0+1	0+0	$\frac{10.40M}{ce 1.75s}$
$\frac{802.319}{802.65}$	Ag ⁹⁶ ₄₇	$\frac{95.93103}{95.93068}$	47n	2+0	8+0	18+0	12+0	5+1	0+1	0+0	$\frac{11.56M}{ce 4.40s}$
$\frac{816.644}{816.97}$	Ag ⁹⁷ ₄₇	$\frac{96.92432}{96.92397}$	47n	2+0	8+0	18+0	15+0	1+2	0+1	0+0	$\frac{6.980M}{ce 25.5s}$
$\frac{827.274}{827.28}$	Ag ⁹⁸ ₄₇	$\frac{97.92157}{97.92157}$	47n	2+0	8+0	18+0	14+1	0+3	1+0	0+0	$\frac{8.270M}{ce 47.5s}$
$\frac{839.061}{839.05}$	Ag ⁹⁹ ₄₇	$\frac{98.91758}{98.91760}$	47n	2+0	8+0	18+0	12+3	1+2	1+0	0+0	$\frac{5.472M}{ce 124s}$
$\frac{848.317}{848.51}$	Ag ¹⁰⁰ ₄₇	$\frac{99.91631}{99.91610}$	47n	2+0	8+0	18+0	11+4	1+2	1+0	0+0	$\frac{7.089M}{ce 2.01m}$
$\frac{859.886}{859.66}$	Ag ¹⁰¹ ₄₇	$\frac{100.91256}{100.91280}$	47n	2+0	8+0	18+0	10+6	1+0	1+1	0+0	$\frac{4.097M}{ce 11.1m}$
$\frac{869.141}{868.76}$	Ag ¹⁰² ₄₇	$\frac{101.91129}{101.91169}$	47n	2+0	8+0	18+0	9+7	1+0	1+1	0+0	$\frac{5.682M}{ce 12.9m}$
$\frac{879.775}{879.37}$	Ag ¹⁰³ ₄₇	$\frac{102.90853}{102.90897}$	47n	2+0	8+0	18+0	10+7	0+1	0+1	0+0	$\frac{2.682M}{ce 65.7m}$
$\frac{887.872}{887.76}$	Ag ¹⁰⁴ ₄₇	$\frac{103.90851}{103.90863}$	47n	2+0	8+0	18+0	8+8	0+2	1+0	0+0	$\frac{4.279M}{ce 69.2m}$
$\frac{898.286}{897.79}$	Ag ¹⁰⁵ ₄₇	$\frac{104.90599}{104.90653}$	47n	2+0	8+0	18+0	8+9	0+1	0+1	0+0	$\frac{1.345M}{ce 41.29d}$
$\frac{906.383}{905.73}$	Ag ¹⁰⁶ ₄₇	$\frac{105.90596}{105.90667}$	47n	2+0	8+0	18+0	6+10	0+2	1+0	0+0	$\frac{2.965M}{ce 23.96m}$
$\frac{915.639}{915.26}$	Ag ¹⁰⁷ ₄₇	$\frac{106.90469}{106.90510}$	47n	2+0	8+0	18+0	5+11	0+2	1+0	0+0	$\frac{st}{51.839\%}$
$\frac{922.361}{922.53}$	Ag ¹⁰⁸ ₄₇	$\frac{107.90614}{107.90596}$	47n	2+0	8+0	18+0	3+12	1+2	1+0	0+0	$\frac{1.647M}{\beta^- 2.382m}$

$\frac{E_c(\text{MeV})}{E_s(\text{MeV})}$	Sa	$\frac{m_c}{m_s}$	n	1	2	3	4	5	6	7	$\frac{E_p(\text{eV})}{p \cdot T_{1/2}}$
$\frac{931.616}{931.73}$	Ag_{47}^{109}	$\frac{108.90487}{108.90475}$	47n	2+0	8+0	18+0	2+13	1+2	1+0	0+0	$\frac{\text{st}}{48.161\%}$
$\frac{938.340}{938.54}$	Ag_{47}^{110}	$\frac{109.90632}{109.90611}$	47n	2+0	8+0	18+0	2+13	0+3	1+0	0+0	$\frac{2.8929\text{M}}{\beta^- 24.6\text{s}}$
$\frac{947.596}{947.37}$	Ag_{47}^{111}	$\frac{110.90505}{110.90529}$	47n	2+0	8+0	18+0	1+14	0+3	1+0	0+0	$\frac{1.0368\text{M}}{\beta^- 7.45\text{d}}$
$\frac{952.945}{953.84}$	Ag_{47}^{112}	$\frac{111.90797}{111.90701}$	47n	2+0	8+0	18+0	1+14	0+3	0+1	0+0	$\frac{3.995\text{M}}{\beta^- 3.130\text{h}}$
$\frac{962.201}{962.32}$	Ag_{47}^{113}	$\frac{112.90670}{112.90657}$	47n	2+0	8+0	18+0	0+15	0+3	0+1	0+0	$\frac{2.016\text{M}}{\beta^- 5.37\text{h}}$
$\frac{968.917}{968.31}$	Ag_{47}^{114}	$\frac{113.90815}{113.90880}$	47n	2+0	8+0	16+1	0+15	1+3	0+1	0+0	$\frac{5.087\text{M}}{\beta^- 4.60\text{s}}$
$\frac{975.642}{976.42}$	Ag_{47}^{115}	$\frac{114.90960}{114.90876}$	47n	2+0	8+0	16+1	0+15	0+4	0+1	0+0	$\frac{3.104\text{M}}{\beta^- 20.0\text{m}}$
$\frac{982.358}{982.07}$	Ag_{47}^{116}	$\frac{115.91105}{115.91136}$	47n	2+0	8+0	14+2	0+15	1+4	0+1	0+0	$\frac{6.174\text{M}}{\beta^- 237\text{s}}$
$\frac{989.737}{989.84}$	Ag_{47}^{117}	$\frac{116.91179}{116.91168}$	47n	2+0	8+0	14+2	0+16	0+3	0+1	0+1	$\frac{4.240\text{M}}{\beta^- 72.8\text{s}}$
$\frac{995.077}{995.21}$	Ag_{47}^{118}	$\frac{117.91473}{117.91458}$	47n	2+0	8+0	12+3	0+16	0+3	1+1	0+1	$\frac{7.152\text{M}}{\beta^- 3.76\text{s}}$
$\frac{1002.62}{1002.3}$	Ag_{47}^{119}	$\frac{118.91529}{118.91567}$	47n	2+0	8+0	10+4	0+16	1+3	0+2	1+0	$\frac{5.330\text{M}}{\beta^- 6.0\text{s}}$
$\frac{1007.96}{1007.4}$	Ag_{47}^{120}	$\frac{119.91823}{119.91879}$	47n	2+0	8+0	8+5	0+16	1+3	1+2	1+0	$\frac{8.306\text{M}}{\beta^- 1.23\text{s}}$
$\frac{1014.69}{1014.5}$	Ag_{47}^{121}	$\frac{120.91967}{120.91985}$	47n	2+0	8+0	8+5	0+16	0+4	1+2	1+0	$\frac{6.650\text{M}}{\beta^- 780\text{ms}}$
$\frac{1019.21}{1019.2}$	Ag_{47}^{122}	$\frac{121.92348}{121.92353}$	47n	2+0	8+0	8+5	0+16	0+4	1+2	0+1	$\frac{9.510\text{M}}{\beta^- 529\text{ms}}$
$\frac{1025.92}{1026.0}$	Ag_{47}^{123}	$\frac{122.92494}{122.92490}$	47n	2+0	8+0	6+6	0+16	1+4	1+2	0+1	$\frac{7.770\text{M}}{\beta^- 300\text{ms}}$
$\frac{1030.726}{1030.5}$	Ag_{47}^{124}	$\frac{123.92845}{123.92864}$	47n	2+0	8+0	6+6	0+16	0+4	0+4	1+0	$\frac{10.50\text{M}}{\beta^- 172\text{ms}}$

$\frac{E_c(\text{MeV})}{E_s(\text{MeV})}$	Sa	$\frac{m_c}{m_s}$	n	1	2	3	4	5	6	7	$\frac{E_p(\text{eV})}{p - T_{1/2}}$
$\frac{1037.44}{1036.9}$	Ag_{47}^{125}	$\frac{124.92990}{124.93043}$	47n	2+0	8+0	4+7	0+16	1+4	0+4	1+0	$\frac{8.920M}{\beta^- 166ms}$
$\frac{1041.42}{1041.2}$	Ag_{47}^{126}	$\frac{125.93429}{125.93450}$	47n	2+0	8+0	4+7	0+16	1+4	0+4	0+1	$\frac{11.40M}{\beta^- 107ms}$
$\frac{1047.30}{1047.2}$	Ag_{47}^{127}	$\frac{126.93665}{126.93677}$	47n	2+0	8+0	4+7	0+16	1+4	1+4	0+1	$\frac{9.700M}{\beta^- 109ms}$
$\frac{1051.28}{1051.2}$	Ag_{47}^{128}	$\frac{127.94104}{127.94117}$	47n	2+0	8+0	2+8	0+16	0+4	1+5	0+1	$\frac{12.30M}{\beta^- 58.0ms}$
$\frac{1056.63}{1056.9}$	Ag_{47}^{129}	$\frac{128.94396}{128.94369}$	47n	2+0	8+0	2+8	0+16	0+4	0+6	0+1	$\frac{10.70M}{\beta^- 46.0ms}$
$\frac{1058.28}{1058.7}$	Ag_{47}^{130}	$\frac{129.95086}{129.95045}$	47n	2+0	8+0	0+9	0+15	1+5	0+6	0+1	$\frac{8.900M}{n\beta^- 50.0ms}$
$\frac{1062.45}{-}$	Ag_{47}^{131}	$\frac{130.95504}{-}$	47n	2+0	6+1	0+9	1+14	1+6	0+6	0+1	$\frac{10.85M}{n\beta^-}$

$E_c(\text{MeV})$ = 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