TAVOLA PERIODICA DEI NUCLEI ATOMICI

configurazione dei livelli nucleari degli isotopi PROMEZIO Z = 61-a

$\frac{E_c(MeV)}{E_s(MeV)}$	Sa	$\frac{m_c}{m_s}$	n	1	2	3	4	5	6	7	$\frac{E_p(eV)}{p\text{-}T_{1/2}}$
$\frac{1008.82}{1008.8}$	Pm_{61}^{126}	$\frac{125.95753}{125.95752}$	61n	2+0	8+0	18+0	15+0	13+2	1+2	0+0	$\frac{13.80M}{ce\,500ms}$
$\frac{1022.25}{1022.4}$	Pm_{61}^{127}	$\frac{126.95178}{126.95163}$	61n	2+0	8+0	18+0	16+0	11+4	1+1	0+0	$\frac{10.90M}{ce\,1.00s}$
$\frac{1034.10}{1033.5}$	Pm_{61}^{128}	$\frac{127.94773}{127.94842}$	61n	2+0	8+0	18+0	17+0	10+5	0+1	0+0	$\frac{12.50M}{ce1.0s}$
$\frac{1045.96}{1046.4}$	Pm_{61}^{129}	$\frac{128.94366}{128.94316}$	61n	2+0	8+0	18+0	18+0	7+7	1+0	0+0	$\frac{9.700M}{ce2.40s}$
$\frac{1057.56}{1057.0}$	Pm_{61}^{130}	$\frac{129.93987}{129.94045}$	61n	2+0	8+0	18+0	20+0	5+7	0+1	0+0	$\frac{11.40M}{ce2.60s}$
$\frac{1069.41}{1069.4}$	Pm_{61}^{131}	$\frac{130.93581}{130.93587}$	61n	2+0	8+0	18+0	21+0	2+9	1+0	0+0	$\frac{8.180M}{ce6.30s}$
$\frac{1079.69}{1079.4}$	Pm_{61}^{132}	$\frac{131.93344}{131.93375}$	61n	2+0	8+0	18+0	22+0	0+10	1+0	0+0	$\frac{9.790M}{ce6.20s}$
$\frac{1091.29}{1091.2}$	Pm_{61}^{133}	$\frac{132.92965}{132.92978}$	61n	2+0	8+0	18+0	22+1	0+9	0+1	0+0	$\frac{6.920M}{ce13.5s}$
$\frac{1100.23}{1100.6}$	Pm_{61}^{134}	$\frac{133.92872}{133.92835}$	61n	2+0	8+0	18+0	20+2	0+10	1+0	0+0	$\frac{8.910M}{ce5.0s}$
$\frac{1111.83}{1111.9}$	Pm_{61}^{135}	$\frac{134.92493}{134.92488}$	61n	2+0	8+0	18+0	20+3	0+9	0+1	0+0	$\frac{6.240M}{ce49.0s}$
$\frac{1120.78}{1121.2}$	Pm_{61}^{136}	$\frac{135.92399}{135.92357}$	61n	2+0	8+0	18+0	18+4	0+10	1+0	0+0	$\frac{8.00M}{ce107s}$
$\frac{1131.63}{1132.1}$	Pm_{61}^{137}	$\frac{136.92101}{136.920479}$	61n	2+0	8+0	18+0	17+7	1+4	0+4	0+0	$\frac{5.512M}{ce\ 2.40m}$
$\frac{1141.33}{1141.1}$	Pm_{61}^{138}	$\frac{137.91926}{137.919548}$	61n	2+0	8+0	18+0	16+6	0+10	1+0	0+0	$\frac{7.080M}{ce10.0s}$
$\frac{1151.60}{1151.7}$	Pm_{61}^{139}	$\frac{138.91690}{138.916804}$	61n	2+0	8+0	18+0	15+7	0+10	1+0	0+0	$\frac{4.510M}{ce4.15m}$
$\frac{1160.30}{1160.5}$	Pm_{61}^{140}	$\frac{139.91622}{139.91604}$	61n	2+0	8+0	18+0	14+8	1+9	0+1	0+0	$\frac{6.045M}{ce\ 9.20s}$
$\frac{1170.58}{1170.9}$	Pm_{61}^{141}	$\frac{140.91385}{140.913555}$	61n	2+0	8+0	18+0	13+9	1+9	0+1	0+0	$\frac{3.670M}{ce\ 20.90m}$

$\frac{E_c(MeV)}{E_s(MeV)}$	Sa	$\frac{m_c}{m_s}$	n	1	2	3	4	5	6	7	$\frac{E_p(eV)}{p\text{-}T_{1/2}}$
$\frac{1179.53}{1179.6}$	Pm_{61}^{142}	$\frac{141.91291}{141.912874}$	61n	2+0	8+0	18+0	11+10	1+10	1+0	0+0	$\frac{4.790M}{ce\ 40.5s}$
$\frac{1189.80}{1189.4}$	Pm_{61}^{143}	$\frac{142.91055}{142.910933}$	61n	2+0	8+0	18+0	10+11	1+10	1+0	0+0	$\frac{1.041M}{ce\ 265.0d}$
$\frac{1195.60}{1196.0}$	Pm_{61}^{144}	$\frac{143.91299}{143.912591}$	61n	2+0	8+0	18+0	10+11	1+10	0+1	0+0	$\frac{2.332M}{ce\ 363.0d}$
$\frac{1204.55}{1203.9}$	Pm_{61}^{145}	$\frac{144.91204}{144.912749}$	61n	2+0	8+0	18+0	8+12	1+11	1+0	0+0	$\frac{164.0K}{ce\ 17.7a}$
$\frac{1210.60}{1210.1}$	Pm_{61}^{146}	$\frac{145.91421}{145.914696}$	61n	2+0	8+0	18+0	9+11	0+13	0+0	0+0	$\frac{1.542M}{ce\ 5.53a}$
$\frac{1217.98}{1217.8}$	Pm_{61}^{147}	$\frac{146.91495}{146.915138}$	61n	2+0	8+0	18+0	7+12	1+13	0+0	0+0	$\frac{224.1K}{\beta^- 2.6234a}$
$\frac{1223.77}{1223.7}$	Pm_{61}^{148}	$\frac{147.91740}{147.917475}$	61n	2+0	8+0	18+0	5+13	1+13	1+0	0+0	$\frac{2.471M}{\beta^- 5.368d}$
$\frac{1230.90}{1231.0}$	Pm_{61}^{149}	$\frac{148.91841}{148.918334}$	61n	2+0	8+0	18+0	4+14	1+12	1+1	0+0	$\frac{1.0715M}{\beta^- 53.08h}$
$\frac{1236.70}{1236.6}$	Pm_{61}^{150}	$\frac{149.92085}{149.920984}$	61n	2+0	8+0	18+0	4+14	1+12	0+2	0+0	$\frac{3.454M}{\beta^- 2.68h}$
$\frac{1244.08}{1244.4}$	Pm_{61}^{151}	$\frac{150.92159}{150.921207}$	61n	2+0	8+0	18+0	4+14	0+13	0+2	0+0	$\frac{1.187M}{\beta^- 28.40h}$
$\frac{1249.87}{1250.4}$	Pm_{61}^{152}	$\frac{151.92404}{151.923497}$	61n	2+0	8+0	18+0	2+15	0+13	1+2	0+0	$\frac{3.510M}{\beta^- 4.12m}$
$\frac{1257.25}{1257.9}$	Pm_{61}^{153}	$\frac{152.92479}{152.924117}$	61n	2+0	8+0	18+0	0+16	1+13	1+2	0+0	$\frac{1.881M}{\beta^- 5.25m}$
$\frac{1263.05}{1263.8}$	Pm_{61}^{154}	$\frac{153.92722}{153.92646}$	61n	2+0	8+0	18+0	0+16	1+13	0+3	0+0	$\frac{3.960M}{\beta^- 2.68m}$
$\frac{1270.43}{1270.3}$	Pm_{61}^{155}	$\frac{154.92797}{154.92810}$	61n	2+0	8+0	18+0	0+16	0+14	0+3	0+0	$\frac{3.220M}{\beta^- 41.5s}$
$\frac{1276.22}{1275.6}$	Pm_{61}^{156}	$\frac{155.93042}{155.93106}$	61n	2+0	8+0	16+1	0+16	0+14	1+3	0+0	$\frac{5.150M}{\beta^- 26.70s}$
$\frac{1282.02}{1281.8}$	Pm_{61}^{157}	$\frac{156.93285}{156.93304}$	61n	2+0	8+0	16+1	0+16	0+14	0+4	0+0	$\frac{4.360M}{\beta^- 10.56s}$

$\frac{E_c(MeV)}{E_s(MeV)}$	Sa	$\frac{m_c}{m_s}$	n	1	2	3	4	5	6	7	$\frac{E_p(eV)}{p\text{-}T_{1/2}}$
$\frac{1286.86}{1286.6}$	Pm_{61}^{158}	$\frac{157.93632}{157.93656}$	61n	2+0	8+0	14+2	0+16	0+14	0+4	1+0	$\frac{6.080M}{\beta^- 4.80s}$
$\frac{1292.65}{1292.5}$	Pm_{61}^{159}	$\frac{158.93877}{158.93897}$	61n	2+0	8+0	12+3	0+16	0+14	1+4	1+0	$\frac{5.430M}{\beta^- 1.50s}$
$\frac{1296.87}{1296.8}$	Pm_{61}^{160}	$\frac{159.94291}{159.94299}$	61n	2+0	8+0	10+4	0+16	1+13	1+5	1+0	$\frac{7.300M}{\beta^- 2s}$
$\frac{1301.72}{1302.2}$	Pm_{61}^{161}	$\frac{160.94636}{160.94586}$	61n	2+0	8+0	10+4	0+16	1+13	1+5	0+1	$\frac{6.300M}{\beta^- 700ms}$
$\frac{1305.95}{1306.1}$	Pm_{61}^{162}	$\frac{161.95049}{161.95029}$	61n	2+0	8+0	10+4	0+16	0+13	1+6	0+1	$\frac{8.400M}{\beta^- 500ms}$
$\frac{1311.12}{1311.0}$	Pm_{61}^{163}	$\frac{162.95360}{162.95368}$	61n	2+0	8+0	8+5	0+16	1+12	0+8	1+0	$\frac{7.800M}{\beta^- 200ms}$
$\frac{1314.39}{-}$	Pm_{61}^{164}	$\frac{163.95876}{-}$	61n	2+0	8+0	8+5	0+16	0+12	1+8	0+1	$\frac{9.010M}{\beta^-}$
$\frac{1318.61}{-}$	Pm_{61}^{165}	$\frac{164.96289}{-}$	61n	2+0	8+0	6+6	0+16	1+11	1+9	0+1	$\frac{8.490M}{\beta^-}$
$\frac{1324.41}{-}$	Pm_{61}^{166}	$\frac{165.96533}{-}$	61n	2+0	8+0	6+6	0+16	1+11	0+10	0+1	$\frac{8.030M}{\beta^-}$

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

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

$\mathbf{m_c}$ = valore calcolato della massa atomica

$\mathbf{m_s}$ = valore sperimentale della massa atomica

n = numero di neutroni centrali attivi

1-7 = numero quantico associato al livello

$\mathbf{p} + \mathbf{d}$ = (numero di protoni) + (numero di deutoni) in orbita

p -$\mathbf{T}_{1/2}$ = particella emessa – periodo di dimezzamento

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