

**TAVOLA DEI NUCLEI ATOMICI isobari**

**configurazione dei livelli nucleari degli isobari con  $A = 148$**

$\frac{E_c(\text{MeV})}{E_s(\text{MeV})}$	Sa	$\frac{m_c}{m_s}$	n	1	2	3	4	5	6	7	$\frac{E_{\beta np}(\text{eV})}{\beta np - T_{1/2}}$
$\frac{1183.39}{-}$	$I_{53}^{148}$	$\frac{147.96747}{-}$	53n	2+0	8+0	0+9	0+16	0+5	1+11	0+1	$\frac{4.110M}{n\beta^-}$
$\frac{1190.68}{-}$	$Xe_{54}^{148}$	$\frac{147.95881}{-}$	54n	2+0	8+0	2+8	0+16	1+6	1+9	0+1	$\frac{4.700M}{n\beta^- > 408ns}$
$\frac{1198.72}{1198.8}$	$Cs_{55}^{148}$	$\frac{147.94933}{147.94922}$	55n	2+0	8+0	6+6	0+16	0+8	0+8	1+0	$\frac{4.900M}{\beta^- 146ms}$
$\frac{1209.33}{1208.8}$	$Ba_{56}^{148}$	$\frac{147.93710}{147.93772}$	56n	2+0	8+0	10+4	0+16	0+11	0+4	0+1	$\frac{5.120M}{\beta^- 0.612s}$
$\frac{1213.46}{1213.1}$	$La_{57}^{148}$	$\frac{147.93183}{147.93223}$	57n	2+0	8+0	12+3	0+16	0+11	1+4	0+0	$\frac{7.690M}{\beta^- 1.26s}$
$\frac{1220.14}{1219.6}$	$Ce_{58}^{148}$	$\frac{147.92382}{147.92443}$	58n	2+0	8+0	14+2	0+16	1+12	1+2	0+0	$\frac{2.137M}{\beta^- 56.0s}$
$\frac{1220.48}{1220.9}$	$Pr_{59}^{148}$	$\frac{147.92262}{147.922135}$	59n	2+0	8+0	18+0	0+16	0+12	1+2	0+0	$\frac{4.872M}{\beta^- 2.29m}$
$\frac{1225.25}{1225.0}$	$Nd_{60}^{148}$	$\frac{147.91665}{147.916893}$	60n	2+0	8+0	18+0	4+14	0+13	0+1	0+0	$\frac{1.9289M}{\frac{2\beta^- 3 \cdot 10^{18}a}{5.7\%}}$
$\frac{1223.77}{1223.7}$	$Pm_{61}^{148}$	$\frac{147.91740}{147.917475}$	61n	2+0	8+0	18+0	5+13	1+13	1+0	0+0	$\frac{2.471M}{\beta^- 5.368d}$
$\frac{1224.97}{1225.4}$	$Sm_{62}^{148}$	$\frac{147.91528}{147.914823}$	62n	2+0	8+0	18+0	9+11	1+13	0+0	0+0	$\frac{1.9866M}{\frac{\alpha 7 \cdot 10^{15}a}{11.24\%}}$
$\frac{1221.14}{1221.6}$	$Eu_{63}^{148}$	$\frac{147.91855}{147.918086}$	63n	2+0	8+0	18+0	13+9	0+12	0+1	0+0	$\frac{3.036M}{ce 54.5d}$
$\frac{1220.25}{1220.8}$	$Gd_{64}^{148}$	$\frac{147.91866}{147.918115}$	64n	2+0	8+0	18+0	15+8	1+11	0+1	0+0	$\frac{3.27121M}{\alpha 70.9a}$
$\frac{1214.00}{1214.2}$	$Tb_{65}^{148}$	$\frac{147.92453}{147.924272}$	65n	2+0	8+0	18+0	18+7	0+8	1+3	0+0	$\frac{5.729M}{\beta^+ 60.0m}$
$\frac{1210.97}{1210.8}$	$Dy_{66}^{148}$	$\frac{147.92694}{147.92715}$	66n	2+0	8+0	18+0	22+5	0+7	0+4	0+0	$\frac{2.681M}{ce 1.30m}$
$\frac{1200.12}{1200.2}$	$Ho_{67}^{148}$	$\frac{147.93775}{147.93772}$	67n	2+0	8+0	18+0	24+4	0+4	0+6	1+0	$\frac{9.870M}{ce 2.20s}$
$\frac{1193.02}{1193.0}$	$Er_{68}^{148}$	$\frac{147.94454}{147.94455}$	68n	2+0	8+0	18+0	27+1	1+6	0+4	0+1	$\frac{6.510M}{ce 4.60s}$
$\frac{1179.03}{1179.8}$	$Tm_{69}^{148}$	$\frac{147.95872}{147.95784}$	69n	2+0	8+0	18+0	27+0	2+4	1+6	1+0	$\frac{12.714M}{ce 700ms}$
$\frac{1170.12}{1170.1}$	$Yb_{70}^{148}$	$\frac{147.96743}{147.96742}$	70n	2+0	8+0	18+0	26+0	6+1	1+7	1+0	$\frac{8.600M}{ce 250ms}$