

TAVOLA DEI NUCLEI ATOMICI isobari

configurazione dei livelli nucleari degli isobari con **A = 153-a**

$\frac{E_c(\text{MeV})}{E_s(\text{MeV})}$	Sa	$\frac{m_c}{m_s}$	n	1	2	3	4	5	6	7	$\frac{E_{\beta np}(\text{eV})}{\beta np - T_{1/2}}$
$\frac{1219.32}{-}$	Cs ₅₅ ¹⁵³	$\frac{152.97054}{-}$	55n	2+0	8+0	2+8	0+16	1+5	0+13	1+0	$\frac{9.380M}{\beta^-}$
$\frac{1229.42}{1228.7}$	Ba ₅₆ ¹⁵³	$\frac{152.95886}{152.95961}$	56n	2+0	8+0	4+7	0+16	0+8	0+10	1+0	$\frac{9.400M}{\beta^- 80.0ms}$
$\frac{1236.97}{1237.2}$	La ₅₇ ¹⁵³	$\frac{152.94992}{152.94962}$	57n	2+0	8+0	8+5	0+16	0+10	0+7	0+1	$\frac{8.700M}{\beta^- 150ms}$
$\frac{1244.68}{1244.9}$	Ce ₅₈ ¹⁵³	$\frac{152.94080}{152.94058}$	58n	2+0	8+0	8+5	0+16	1+11	1+5	1+0	$\frac{6.400M}{\beta^- 500ms}$
$\frac{1250.72}{1250.4}$	Pr ₅₉ ¹⁵³	$\frac{152.93348}{152.93384}$	59n	2+0	8+0	12+3	0+16	1+12	1+4	0+0	$\frac{5.760M}{\beta^- 4.28s}$
$\frac{1255.65}{1255.3}$	Nd ₆₀ ¹⁵³	$\frac{152.92734}{152.927698}$	60n	2+0	8+0	16+1	0+16	1+13	0+3	0+0	$\frac{3.336M}{\beta^- 31.6s}$
$\frac{1257.25}{1257.9}$	Pm ₆₁ ¹⁵³	$\frac{152.92479}{152.924117}$	61n	2+0	8+0	18+0	0+16	1+13	1+2	0+0	$\frac{1.881M}{\beta^- 5.25m}$
$\frac{1258.87}{1259.0}$	Sm ₆₂ ¹⁵³	$\frac{152.92221}{152.922097}$	62n	2+0	8+0	18+0	5+13	0+15	0+1	0+0	$\frac{806.8K}{\beta^- 46.284h}$
$\frac{1258.68}{1259.0}$	Eu ₆₃ ¹⁵³	$\frac{152.92157}{152.921230}$	63n	2+0	8+0	18+0	8+11	0+16	0+0	0+0	st 52.19%
$\frac{1257.73}{1257.7}$	Gd ₆₄ ¹⁵³	$\frac{152.92175}{152.921749}$	64n	2+0	8+0	18+0	11+10	0+14	0+1	0+0	$\frac{484.0K}{ce 240.4d}$
$\frac{1254.91}{1255.4}$	Tb ₆₅ ¹⁵³	$\frac{152.92394}{152.923435}$	65n	2+0	8+0	18+0	12+10	1+11	1+2	0+0	$\frac{1.569M}{ce 2.34d}$
$\frac{1252.10}{1252.4}$	Dy ₆₆ ¹⁵³	$\frac{152.92612}{152.925765}$	66n	2+0	8+0	18+0	16+8	1+10	0+3	0+0	$\frac{2.1704M}{ce 6.40h}$
$\frac{1247.39}{1247.5}$	Ho ₆₇ ¹⁵³	$\frac{152.93033}{152.930199}$	67n	2+0	8+0	18+0	20+6	0+9	0+4	0+0	$\frac{4.130M}{ce 2.01m}$
$\frac{1242.06}{1242.2}$	Er ₆₈ ¹⁵³	$\frac{152.93521}{152.935063}$	68n	2+0	8+0	18+0	22+5	0+8	1+3	0+1	$\frac{4.537M}{\alpha 37.1s}$
$\frac{1235.14}{1234.9}$	Tm ₆₉ ¹⁵³	$\frac{152.94180}{152.942012}$	69n	2+0	8+0	18+0	26+3	0+6	0+5	0+1	$\frac{6.484M}{\alpha 1.48s}$
$\frac{1227.26}{1227.2}$	Yb ₇₀ ¹⁵³	$\frac{152.94942}{152.94948}$	70n	2+0	8+0	18+0	26+3	1+3	1+7	1+0	$\frac{6.930M}{\alpha 4.20s}$

TAVOLA PERIODICA DEI NUCLEI ATOMICI
configurazione dei livelli nucleari degli isobari $A = 153-b$

$\frac{E_c(\text{MeV})}{E_s(\text{MeV})}$	Sa	$\frac{m_c}{m_s}$	n	1	2	3	4	5	6	7	$\frac{E_{\beta np}(\text{eV})}{\beta np - T_{1/2}}$
$\frac{1217.20}{1217.8}$	Lu ₇₁ ¹⁵³	$\frac{152.95938}{152.95877}$	71n	2+0	8+0	18+0	29+0	2+4	0+7	1+0	$\frac{8.700M}{\alpha 0.90s}$
$\frac{1206.18}{1205.9}$	Hf ₇₂ ¹⁵³	$\frac{152.97037}{152.97069}$	72n	2+0	8+0	18+0	32+0	1+0	2+4	0+5	$\frac{11.10M}{ce 400ms}$