

## TAVOLA DEI NUCLEI ATOMICI isobari

configurazione dei livelli nucleari degli isobari con **A = 231**

$\frac{E_c(\text{MeV})}{E_s(\text{MeV})}$	Sa	$\frac{m_c}{m_s}$	n	1	2	3	4	5	6	7	$\frac{E_{\beta np}(\text{eV})}{\beta np \cdot T_{1/2}}$
$\frac{1754.24}{1754.1}$	Fr <sup>231</sup> <sub>87</sub>	$\frac{231.04527}{231.04544}$	87n	2+0	8+0	18+0	0+16	1+21	1+19	0+1	$\frac{4.100M}{\beta^- 17.6s}$
$\frac{1757.28}{1757.2}$	Ra <sup>231</sup> <sub>88</sub>	$\frac{231.04117}{231.04122}$	88n	2+0	8+0	18+0	2+15	1+22	1+18	1+0	$\frac{2.310M}{\beta^- 104.1s}$
$\frac{1758.38}{1758.9}$	Ac <sup>231</sup> <sub>89</sub>	$\frac{231.03915}{231.03856}$	89n	2+0	8+0	18+0	8+12	0+23	0+18	0+0	$\frac{2.100M}{\beta^- 7.50m}$
$\frac{1760.11}{1760.2}$	Th <sup>231</sup> <sub>90</sub>	$\frac{231.03645}{231.036304}$	90n	2+0	8+0	18+0	10+11	0+24	1+16	0+0	$\frac{390.7M}{\beta^- 25.52h}$
$\frac{1759.87}{1759.9}$	Pa <sup>231</sup> <sub>91</sub>	$\frac{231.03587}{231.035884}$	91n	2+0	8+0	18+0	12+10	1+24	1+15	0+0	$\frac{5.1499M}{\alpha 3.276 \cdot 10^4 a}$
$\frac{1759.52}{1758.7}$	U <sup>231</sup> <sub>92</sub>	$\frac{231.03540}{231.036294}$	92n	2+0	8+0	18+0	16+8	0+25	1+14	0+0	$\frac{381.6K}{ce 4.20d}$
$\frac{1756.03}{1756.1}$	Np <sup>231</sup> <sub>93</sub>	$\frac{231.03831}{231.03825}$	93n	2+0	8+0	18+0	18+7	0+25	1+13	1+0	$\frac{1.820M}{ce 48.8m}$
$\frac{1752.42}{1752.6}$	Pu <sup>231</sup> <sub>94</sub>	$\frac{231.04135}{231.041101}$	94n	2+0	8+0	18+0	22+5	0+25	1+12	0+1	$\frac{2.660M}{ce 8.60m}$
$\frac{1747.16}{1747.7}$	Am <sup>231</sup> <sub>95</sub>	$\frac{231.04615}{231.04556}$	95n	2+0	8+0	18+0	24+4	0+24	1+13	1+0	$\frac{4.200M}{ce 30s}$
$\frac{1742.51}{-}$	Cm <sup>231</sup> <sub>96</sub>	$\frac{231.05031}{-}$	96n	2+0	8+0	18+0	26+3	1+23	1+13	1+0	—