

TAVOLA DEI NUCLEI ATOMICI isobari

configurazione dei livelli nucleari degli isobari con **A = 219**

$\frac{E_c(\text{MeV})}{E_s(\text{MeV})}$	Sa	$\frac{m_c}{m_s}$	n	1	2	3	4	5	6	7	$\frac{E_{\beta np}(\text{eV})}{\beta np - T_{1/2}}$
$\frac{1685.97}{-}$	Bi_{83}^{219}	$\frac{219.01794}{-}$	83n	2+0	8+0	18+0	2+15	0+22	0+15	0+1	$\frac{3.800M}{\beta^- > 300ns}$
$\frac{1689.22}{1689.1}$	Po_{84}^{219}	$\frac{219.01361}{219.01374}$	84n	2+0	8+0	18+0	4+14	0+23	0+14	1+0	$\frac{2.190M}{\beta^- 2m}$
$\frac{1691.31}{1690.7}$	At_{85}^{219}	$\frac{219.01053}{219.011162}$	85n	2+0	8+0	18+0	6+13	0+24	1+12	1+0	$\frac{6.324M}{\alpha 56.0s}$
$\frac{1691.47}{1691.5}$	Rn_{86}^{219}	$\frac{219.00952}{219.009480}$	86n	2+0	8+0	18+0	8+12	1+24	1+11	1+0	$\frac{6.9461M}{\alpha 3.96s}$
$\frac{1690.43}{1690.9}$	Fr_{87}^{219}	$\frac{219.009795}{219.009252}$	87n	2+0	8+0	18+0	14+9	0+25	0+10	0+1	$\frac{7.4485M}{\alpha 20.0ms}$
$\frac{1689.63}{1689.4}$	Ra_{88}^{219}	$\frac{219.009815}{219.010085}$	88n	2+0	8+0	18+0	16+8	0+25	0+10	1+0	$\frac{8.138M}{\alpha 10.0ms}$
$\frac{1685.74}{1686.4}$	Ac_{89}^{219}	$\frac{219.01315}{219.01242}$	89n	2+0	8+0	18+0	18+7	1+24	0+10	1+0	$\frac{8.830M}{\alpha 11.8\mu s}$
$\frac{1682.45}{1682.7}$	Th_{90}^{219}	$\frac{219.01584}{219.01554}$	90n	2+0	8+0	18+0	22+5	1+24	0+9	0+1	$\frac{9.510M}{\alpha 1.05\mu s}$
$\frac{1678.29}{1677.9}$	Pa_{91}^{219}	$\frac{219.01947}{219.01988}$	91n	2+0	8+0	18+0	26+3	0+24	0+9	0+1	$\frac{10.080M}{\alpha 53.0ns}$
$\frac{1672.10}{1672.4}$	U_{92}^{219}	$\frac{219.02527}{219.02492}$	92n	2+0	8+0	18+0	28+2	0+23	1+9	0+1	$\frac{9.960M}{\alpha 42.0\mu s}$
$\frac{1665.01}{-}$	Np_{93}^{219}	$\frac{219.03205}{-}$	93n	2+0	8+0	18+0	30+1	1+21	0+11	1+0	—