

TAVOLA PERIODICA DEI NUCLEI ATOMICI

configurazione dei livelli nucleari degli isotopi **DISPROSIO Z = 66-a**

$\frac{E_c(\text{MeV})}{E_s(\text{MeV})}$	Sa	$\frac{m_c}{m_s}$	n	1	2	3	4	5	6	7	$\frac{E_p(\text{eV})}{p \cdot T_{1/2}}$
$\frac{1097.49}{1097.1}$	Dy ¹³⁸ ₆₆	$\frac{137.96212}{137.96249}$	66n	2+0	8+0	18+0	25+0	2+0	5+5	0+1	$\frac{8.700M}{ce 200ms}$
$\frac{1108.07}{1108.0}$	Dy ¹³⁹ ₆₆	$\frac{138.95943}{138.95954}$	66n	2+0	8+0	18+0	26+0	0+1	5+5	0+1	$\frac{10.40M}{ce 600ms}$
$\frac{1121.28}{1121.2}$	Dy ¹⁴⁰ ₆₆	$\frac{139.95391}{139.95401}$	66n	2+0	8+0	18+0	27+0	1+1	1+7	1+0	$\frac{7.800M}{ce 700ms}$
$\frac{1131.86}{1131.7}$	Dy ¹⁴¹ ₆₆	$\frac{140.95122}{140.95135}$	66n	2+0	8+0	18+0	26+1	1+1	1+7	1+0	$\frac{9.300M}{ce 0.90s}$
$\frac{1144.08}{1144.4}$	Dy ¹⁴² ₆₆	$\frac{141.94677}{141.94637}$	66n	2+0	8+0	18+0	27+1	0+2	0+7	1+0	$\frac{6.700M}{ce 2.30s}$
$\frac{1154.66}{1154.9}$	Dy ¹⁴³ ₆₆	$\frac{142.94407}{142.94383}$	66n	2+0	8+0	18+0	26+2	0+2	0+7	1+0	$\frac{8.250M}{ce 5.60s}$
$\frac{1166.88}{1167.2}$	Dy ¹⁴⁴ ₆₆	$\frac{143.93962}{143.93925}$	66n	2+0	8+0	18+0	23+4	1+2	1+6	1+0	$\frac{5.800M}{ce 9.10s}$
$\frac{1177.07}{1177.0}$	Dy ¹⁴⁵ ₆₆	$\frac{144.93734}{144.93743}$	66n	2+0	8+0	18+0	23+4	1+3	1+6	0+0	$\frac{7.640M}{ce 6.0s}$
$\frac{1189.29}{1189.3}$	Dy ¹⁴⁶ ₆₆	$\frac{145.932845}{145.932845}$	66n	2+0	8+0	18+0	24+4	0+4	0+6	0+0	$\frac{5.210M}{ce 29.0s}$
$\frac{1198.50}{1199.0}$	Dy ¹⁴⁷ ₆₆	$\frac{146.93167}{146.931092}$	66n	2+0	8+0	18+0	22+5	0+5	1+5	0+0	$\frac{6.548M}{ce 67.0s}$
$\frac{1210.97}{1210.8}$	Dy ¹⁴⁸ ₆₆	$\frac{147.92694}{147.92715}$	66n	2+0	8+0	18+0	22+5	0+7	0+4	0+0	$\frac{2.681M}{ce 1.30m}$
$\frac{1218.54}{1218.7}$	Dy ¹⁴⁹ ₆₆	$\frac{148.92748}{148.927305}$	66n	2+0	8+0	18+0	20+6	1+7	0+4	0+0	$\frac{3.787M}{ce 4.20m}$
$\frac{1227.75}{1228.4}$	Dy ¹⁵⁰ ₆₆	$\frac{149.92626}{149.925585}$	66n	2+0	8+0	18+0	18+7	1+8	1+3	0+0	$\frac{1.795M}{ce 7.17m}$
$\frac{1235.32}{1235.9}$	Dy ¹⁵¹ ₆₆	$\frac{150.92680}{150.926185}$	66n	2+0	8+0	18+0	18+7	0+9	1+3	0+0	$\frac{2.870M}{ce 17.9m}$
$\frac{1244.53}{1245.3}$	Dy ¹⁵² ₆₆	$\frac{151.92558}{151.924718}$	66n	2+0	8+0	18+0	18+7	0+10	0+3	0+0	$\frac{600.0K}{ce 2.38h}$
$\frac{1252.10}{1252.4}$	Dy ¹⁵³ ₆₆	$\frac{152.92612}{152.925765}$	66n	2+0	8+0	18+0	16+8	1+10	0+3	0+0	$\frac{2.1704M}{ce 6.40h}$

$\frac{E_c(\text{MeV})}{E_s(\text{MeV})}$	Sa	$\frac{m_c}{m_s}$	n	1	2	3	4	5	6	7	$\frac{E_p(\text{eV})}{p \cdot T_{1/2}}$
$\frac{1261.31}{1261.7}$	Dy ₆₆ ¹⁵⁴	$\frac{153.92489}{153.924424}$	66n	2+0	8+0	18+0	14+9	1+11	1+2	0+0	$\frac{2.945M}{\alpha 3.0 \cdot 10^6 a}$
$\frac{1268.88}{1268.6}$	Dy ₆₆ ¹⁵⁵	$\frac{154.92543}{154.925754}$	66n	2+0	8+0	18+0	14+9	0+12	1+2	0+0	$\frac{2.0945M}{ce 9.90h}$
$\frac{1278.09}{1278.0}$	Dy ₆₆ ¹⁵⁶	$\frac{155.92421}{155.924283}$	66n	2+0	8+0	18+0	14+9	0+13	0+2	0+0	$\frac{2.012M}{2ce 1.0 \cdot 10^{18} a}$ 0.056%
$\frac{1285.66}{1285.0}$	Dy ₆₆ ¹⁵⁷	$\frac{156.92475}{156.925466}$	66n	2+0	8+0	18+0	12+10	1+13	0+2	0+0	$\frac{1.343M}{ce 8.14h}$
$\frac{1293.23}{1294.0}$	Dy ₆₆ ¹⁵⁸	$\frac{157.92529}{157.924409}$	66n	2+0	8+0	18+0	12+10	0+14	0+2	0+0	st 0.095%
$\frac{1300.80}{1300.9}$	Dy ₆₆ ¹⁵⁹	$\frac{158.92582}{158.925739}$	66n	2+0	8+0	18+0	10+11	1+14	0+2	0+0	$\frac{365.4K}{ce 144.4d}$
$\frac{1310.01}{1309.5}$	Dy ₆₆ ¹⁶⁰	$\frac{159.92460}{159.925197}$	66n	2+0	8+0	18+0	8+12	1+15	1+1	0+0	st 2.329%
$\frac{1315.94}{1315.9}$	Dy ₆₆ ¹⁶¹	$\frac{160.92690}{160.926933}$	66n	2+0	8+0	18+0	8+12	1+15	0+2	0+0	st 18.889%
$\frac{1323.52}{1324.1}$	Dy ₆₆ ¹⁶²	$\frac{161.92743}{161.926798}$	66n	2+0	8+0	18+0	8+12	0+16	0+2	0+0	st 25.475%
$\frac{1331.09}{1330.4}$	Dy ₆₆ ¹⁶³	$\frac{162.92797}{162.928731}$	66n	2+0	8+0	18+0	6+13	1+16	0+2	0+0	st 24.896%
$\frac{1338.66}{1338.0}$	Dy ₆₆ ¹⁶⁴	$\frac{163.92850}{163.929175}$	66n	2+0	8+0	18+0	6+13	0+17	0+2	0+0	st 28.260%
$\frac{1344.60}{1343.8}$	Dy ₆₆ ¹⁶⁵	$\frac{164.93079}{164.931703}$	66n	2+0	8+0	18+0	4+14	0+17	1+2	0+0	$\frac{1.2867M}{\beta^- 2.334h}$
$\frac{1350.54}{1350.8}$	Dy ₆₆ ¹⁶⁶	$\frac{165.93308}{165.932807}$	66n	2+0	8+0	18+0	4+14	0+17	0+3	0+0	$\frac{486.9K}{\beta^- 81.6h}$
$\frac{1356.47}{1356.2}$	Dy ₆₆ ¹⁶⁷	$\frac{166.93538}{166.93566}$	66n	2+0	8+0	18+0	2+15	0+17	1+3	0+0	$\frac{2.350M}{\beta^- 6.20m}$
$\frac{1362.41}{1362.9}$	Dy ₆₆ ¹⁶⁸	$\frac{167.93767}{167.93713}$	66n	2+0	8+0	18+0	2+15	0+17	0+4	0+0	$\frac{1.500M}{\beta^- 8.70m}$
$\frac{1368.34}{1368.0}$	Dy ₆₆ ¹⁶⁹	$\frac{168.93997}{168.94031}$	66n	2+0	8+0	18+0	0+16	0+17	1+4	0+0	$\frac{3.200M}{\beta^- 39.0s}$

$\frac{E_c(\text{MeV})}{E_s(\text{MeV})}$	Sa	$\frac{m_c}{m_s}$	n	1	2	3	4	5	6	7	$\frac{E_p(\text{eV})}{p-T_{1/2}}$
$\frac{1373.94}{1374.2}$	Dy ₆₆ ¹⁷⁰	$\frac{169.94262}{169.94239}$	66n	2+0	8+0	16+1	0+16	1+17	1+3	0+1	$\frac{2.580M}{\beta^- 30.0s}$
$\frac{1378.24}{1378.7}$	Dy ₆₆ ¹⁷¹	$\frac{170.94667}{170.94620}$	66n	2+0	8+0	16+1	0+16	0+17	1+4	0+1	$\frac{4.400M}{\beta^- 6s}$
$\frac{1384.18}{1384.4}$	Dy ₆₆ ¹⁷²	$\frac{171.94895}{171.94876}$	66n	2+0	8+0	16+1	0+16	0+17	0+5	0+1	$\frac{3.700M}{\beta^- 3s}$
$\frac{1388.47}{1388.5}$	Dy ₆₆ ¹⁷³	$\frac{172.95301}{172.95300}$	66n	2+0	8+0	14+2	0+16	1+16	0+6	0+1	$\frac{5.500M}{\beta^- 2s}$
$\frac{1394.40}{-}$	Dy ₆₆ ¹⁷⁴	$\frac{173.95531}{-}$	66n	2+0	8+0	12+3	0+16	1+16	1+6	0+1	$\frac{3.100M}{\beta^-}$
$\frac{1398.70}{-}$	Dy ₆₆ ¹⁷⁵	$\frac{174.95936}{-}$	66n	2+0	8+0	12+3	0+16	0+16	1+7	0+1	$\frac{4.200M}{\beta^-}$
$\frac{1404.64}{-}$	Dy ₆₆ ¹⁷⁶	$\frac{175.96165}{-}$	66n	2+0	8+0	12+3	0+16	0+16	0+8	0+1	$\frac{2.580M}{\beta^-}$

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

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

m_c = valore calcolato della massa atomica

m_s = valore sperimentale della massa atomica

n = numero di neutroni centrali attivi

$1-7$ = numero quantico associato al livello

$p + d$ = (numero di protoni) + (numero di deutoni) in orbita

$p - T_{1/2}$ = particella emessa – periodo di dimezzamento

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