

TAVOLA PERIODICA DEI NUCLEI ATOMICI

configurazione dei livelli nucleari degli isotopi OLMIO Z = 67-a

$\frac{E_c(\text{MeV})}{E_s(\text{MeV})}$	Sa	$\frac{m_c}{m_s}$	n	1	2	3	4	5	6	7	$\frac{E_p(\text{eV})}{p-T_{1/2}}$
$\frac{1106.75}{1106.9}$	Ho ¹⁴⁰ ₆₇	$\frac{139.96867}{139.96854}$	67n	2+0	8+0	18+0	24+0	3+0	5+6	1+0	$\frac{1.6054M}{p\ 6.0ms}$
$\frac{1120.43}{1120.0}$	Ho ¹⁴¹ ₆₇	$\frac{140.96265}{140.96310}$	67n	2+0	8+0	18+0	26+0	2+0	3+7	1+0	$\frac{1.68928M}{p\ 4.1ms}$
$\frac{1131.07}{1131.2}$	Ho ¹⁴² ₆₇	$\frac{141.95989}{141.95977}$	67n	2+0	8+0	18+0	27+0	2+0	1+8	1+0	$\frac{12.60M}{ce\ 400ms}$
$\frac{1144.02}{1144.1}$	Ho ¹⁴³ ₆₇	$\frac{142.95466}{142.95461}$	67n	2+0	8+0	18+0	28+0	2+1	0+7	0+1	$\frac{10.10M}{ce\ 300ms}$
$\frac{1154.92}{1155.0}$	Ho ¹⁴⁴ ₆₇	$\frac{143.95162}{143.95148}$	67n	2+0	8+0	18+0	28+0	1+3	0+6	0+1	$\frac{11.961M}{ce\ 700ms}$
$\frac{1167.20}{1167.1}$	Ho ¹⁴⁵ ₆₇	$\frac{144.94710}{144.94720}$	67n	2+0	8+0	18+0	27+1	0+4	1+5	0+1	$\frac{9.122M}{ce\ 2.40s}$
$\frac{1177.84}{1177.6}$	Ho ¹⁴⁶ ₆₇	$\frac{145.94434}{145.94464}$	67n	2+0	8+0	18+0	26+2	0+4	1+5	0+1	$\frac{11.317M}{ce\ 3.60s}$
$\frac{1189.87}{1189.9}$	Ho ¹⁴⁷ ₆₇	$\frac{146.94009}{146.94006}$	67n	2+0	8+0	18+0	26+3	0+3	0+6	0+1	$\frac{8.438M}{ce\ 5.80s}$
$\frac{1200.12}{1200.2}$	Ho ¹⁴⁸ ₆₇	$\frac{147.93775}{147.93772}$	67n	2+0	8+0	18+0	24+4	0+4	0+6	1+0	$\frac{9.870M}{ce\ 2.20s}$
$\frac{1212.01}{1211.9}$	Ho ¹⁴⁹ ₆₇	$\frac{148.93365}{148.933775}$	67n	2+0	8+0	18+0	22+5	1+5	1+5	0+0	$\frac{6.038M}{ce\ 21.1s}$
$\frac{1219.62}{1220.2}$	Ho ¹⁵⁰ ₆₇	$\frac{149.93415}{149.933496}$	67n	2+0	8+0	18+0	22+5	0+6	1+5	0+0	$\frac{7.365M}{ce\ 72.0s}$
$\frac{1230.52}{1230.0}$	Ho ¹⁵¹ ₆₇	$\frac{150.93111}{150.931688}$	67n	2+0	8+0	18+0	20+6	1+7	1+4	0+0	$\frac{5.129M}{ce\ 35.2s}$
$\frac{1238.13}{1238.0}$	Ho ¹⁵² ₆₇	$\frac{151.93161}{151.931714}$	67n	2+0	8+0	18+0	20+6	0+8	1+4	0+0	$\frac{6.510M}{ce\ 161.8s}$
$\frac{1247.39}{1247.5}$	Ho ¹⁵³ ₆₇	$\frac{152.93033}{152.930199}$	67n	2+0	8+0	18+0	20+6	0+9	0+4	0+0	$\frac{4.130M}{ce\ 2.01m}$
$\frac{1255.00}{1255.2}$	Ho ¹⁵⁴ ₆₇	$\frac{153.93083}{153.930602}$	67n	2+0	8+0	18+0	18+7	1+9	0+4	0+0	$\frac{5.754M}{ce\ 11.76m}$
$\frac{1264.25}{1264.7}$	Ho ¹⁵⁵ ₆₇	$\frac{154.92956}{154.929103}$	67n	2+0	8+0	18+0	16+8	1+10	1+3	0+0	$\frac{3.113M}{ce\ 48.0m}$

$\frac{E_c(\text{MeV})}{E_s(\text{MeV})}$	Sa	$\frac{m_c}{m_s}$	n	1	2	3	4	5	6	7	$\frac{E_p(\text{eV})}{p^{-T}_{1/2}}$
$\frac{1271.86}{1272.1}$	Ho ₆₇ ¹⁵⁶	$\frac{155.93006}{155.92984}$	67n	2+0	8+0	18+0	16+8	0+11	1+3	0+0	$\frac{5.050M}{ce\ 56.0m}$
$\frac{1281.12}{1281.6}$	Ho ₆₇ ¹⁵⁷	$\frac{156.92878}{156.928256}$	67n	2+0	8+0	18+0	16+8	0+12	0+3	0+0	$\frac{2.588M}{ce\ 12.6m}$
$\frac{1288.73}{1289.0}$	Ho ₆₇ ¹⁵⁸	$\frac{157.92928}{157.928941}$	67n	2+0	8+0	18+0	14+9	1+12	0+3	0+0	$\frac{4.220M}{ce\ 11.3m}$
$\frac{1297.98}{1298.3}$	Ho ₆₇ ¹⁵⁹	$\frac{158.92801}{158.927712}$	67n	2+0	8+0	18+0	12+10	1+13	1+2	0+0	$\frac{1.838M}{ce\ 33.05m}$
$\frac{1305.59}{1305.4}$	Ho ₆₇ ¹⁶⁰	$\frac{159.92851}{159.928729}$	67n	2+0	8+0	18+0	12+10	0+14	1+2	0+0	$\frac{3.290M}{ce\ 25.6m}$
$\frac{1314.85}{1314.3}$	Ho ₆₇ ¹⁶¹	$\frac{160.92723}{160.927855}$	67n	2+0	8+0	18+0	12+10	0+15	0+2	0+0	$\frac{858.2K}{ce\ 2.48h}$
$\frac{1320.81}{1321.2}$	Ho ₆₇ ¹⁶²	$\frac{161.92950}{161.929096}$	67n	2+0	8+0	18+0	10+11	0+15	1+2	0+0	$\frac{2.140M}{ce\ 15.0m}$
$\frac{1330.07}{1329.6}$	Ho ₆₇ ¹⁶³	$\frac{162.92822}{162.928734}$	67n	2+0	8+0	18+0	10+11	0+16	0+2	0+0	$\frac{2.555M}{ce\ 4570a}$
$\frac{1336.03}{1336.3}$	Ho ₆₇ ¹⁶⁴	$\frac{163.93049}{163.930234}$	67n	2+0	8+0	18+0	8+12	0+16	1+2	0+0	$\frac{986.2K}{ce\ 29.0m}$
$\frac{1343.63}{1344.3}$	Ho ₆₇ ¹⁶⁵	$\frac{164.93099}{164.930322}$	67n	2+0	8+0	18+0	6+13	1+16	1+2	0+0	st
$\frac{1349.60}{1350.5}$	Ho ₆₇ ¹⁶⁶	$\frac{165.93325}{165.932284}$	67n	2+0	8+0	18+0	6+13	1+16	0+3	0+0	$\frac{1.8546M}{\beta^- 26.824h}$
$\frac{1357.21}{1357.8}$	Ho ₆₇ ¹⁶⁷	$\frac{166.93374}{166.933133}$	67n	2+0	8+0	18+0	6+13	0+17	0+3	0+0	$\frac{1.010M}{\beta^- 3.003h}$
$\frac{1363.17}{1363.6}$	Ho ₆₇ ¹⁶⁸	$\frac{167.93601}{167.93552}$	67n	2+0	8+0	18+0	4+14	0+17	1+3	0+0	$\frac{2.930M}{\beta^- 2.99m}$
$\frac{1370.78}{1370.4}$	Ho ₆₇ ¹⁶⁹	$\frac{168.93651}{168.936872}$	67n	2+0	8+0	18+0	2+15	1+17	1+3	0+0	$\frac{2.125M}{\beta^- 4.72m}$
$\frac{1376.74}{1376.0}$	Ho ₆₇ ¹⁷⁰	$\frac{169.93877}{169.93962}$	67n	2+0	8+0	18+0	2+15	1+17	0+4	0+0	$\frac{3.870M}{\beta^- 2.76m}$
$\frac{1382.70}{1382.3}$	Ho ₆₇ ¹⁷¹	$\frac{170.94104}{170.94147}$	67n	2+0	8+0	18+0	0+16	1+17	1+4	0+0	$\frac{3.200M}{\beta^- 53.0s}$

$\frac{E_c(\text{MeV})}{E_s(\text{MeV})}$	Sa	$\frac{m_c}{m_s}$	n	1	2	3	4	5	6	7	$\frac{E_p(\text{eV})}{p-T_{1/2}}$
$\frac{1386.68}{1387.2}$	Ho ₆₇ ¹⁷²	$\frac{171.94543}{171.94482}$	67n	2+0	8+0	18+0	0+16	1+17	0+4	0+1	$\frac{5.00M}{\beta^- 25.0s}$
$\frac{1392.63}{1393.0}$	Ho ₆₇ ¹⁷³	$\frac{172.94771}{172.94729}$	67n	2+0	8+0	16+1	0+16	1+17	1+4	0+1	$\frac{4.400M}{\beta^- 10s}$
$\frac{1396.95}{1397.5}$	Ho ₆₇ ¹⁷⁴	$\frac{173.95174}{173.95115}$	67n	2+0	8+0	16+1	0+16	0+17	1+5	0+1	$\frac{6.300M}{\beta^- 8s}$
$\frac{1402.92}{1402.9}$	Ho ₆₇ ¹⁷⁵	$\frac{174.95399}{174.95405}$	67n	2+0	8+0	16+1	0+16	0+17	0+6	0+1	$\frac{5.600M}{\beta^- 5s}$
$\frac{1407.22}{-}$	Ho ₆₇ ¹⁷⁶	$\frac{175.95804}{-}$	67n	2+0	8+0	14+2	0+16	1+16	0+7	0+1	$\frac{6.680M}{\beta^-}$
$\frac{1413.18}{-}$	Ho ₆₇ ¹⁷⁷	$\frac{176.96031}{-}$	67n	2+0	8+0	12+3	0+16	1+16	1+7	0+1	$\frac{5.020M}{\beta^-}$
$\frac{1417.50}{-}$	Ho ₆₇ ¹⁷⁸	$\frac{177.96433}{-}$	67n	2+0	8+0	12+3	0+16	0+16	1+8	0+1	$\frac{6.740M}{\beta^-}$

$E_c(\text{MeV})$ = 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