

**TAVOLA PERIODICA DEI NUCLEI ATOMICI**  
**configurazione dei livelli nucleari degli isodiaferi I = +50**

$\frac{E_c(\text{MeV})}{E_s(\text{MeV})}$	Sa	$\frac{m_c}{m_s}$	n	1	2	3	4	5	6	7	$\frac{E_\alpha(\text{eV})}{T_{1/2}}$
$\frac{1614.99}{-}$	Pt <sub>78</sub> <sup>206</sup>	$\frac{205.98570}{-}$	78n	2+0	8+0	16+1	0+16	1+23	1+9	0+1	$\frac{-}{\beta^-}$
$\frac{1627.78}{-}$	Au <sub>79</sub> <sup>208</sup>	$\frac{207.98846}{-}$	79n	2+0	8+0	16+1	0+16	1+23	1+10	1+0	$\frac{-}{\beta^- > 300\text{ns}}$
$\frac{1637.26}{1637.5}$	Hg <sub>80</sub> <sup>210</sup>	$\frac{209.99477}{209.99451}$	80n	2+0	8+0	18+0	0+16	1+23	0+10	1+1	$\frac{5.674\text{M}}{\beta^- 10\text{m}}$
$\frac{1649.82}{1649.4}$	Tl <sub>81</sub> <sup>212</sup>	$\frac{211.99778}{211.99823}$	81n	2+0	8+0	18+0	2+15	1+23	0+11	0+1	$\frac{2.200\text{M}}{\beta^- 30\text{s}}$
$\frac{1662.98}{1663.3}$	Pb <sub>82</sub> <sup>214</sup>	$\frac{214.00014}{213.999805}$	82n	2+0	8+0	18+0	4+14	0+24	0+11	0+1	$\frac{2.760\text{M}}{\beta^- 26.8\text{m}}$
$\frac{1672.43}{1672.6}$	Bi <sub>83</sub> <sup>216</sup>	$\frac{216.00648}{216.006306}$	83n	2+0	8+0	18+0	4+14	1+23	0+12	0+1	$\frac{4.900\text{M}}{\beta^- 2.25\text{m}}$
$\frac{1685.42}{1685.5}$	Po <sub>84</sub> <sup>218</sup>	$\frac{218.009028}{218.008973}$	84n	2+0	8+0	18+0	6+13	0+24	0+12	0+1	$\frac{6.11468\text{M}}{\alpha 3.098\text{m}}$
$\frac{1694.75}{1694.8}$	At <sub>85</sub> <sup>220</sup>	$\frac{220.01550}{220.01541}$	85n	2+0	8+0	18+0	6+13	1+23	0+13	0+1	$\frac{6.050\text{M}}{\beta^- 3.71\text{m}}$
$\frac{1708.03}{1708.2}$	Rn <sub>86</sub> <sup>222</sup>	$\frac{222.01774}{222.017578}$	86n	2+0	8+0	18+0	6+13	1+23	1+14	0+0	$\frac{5.5903\text{M}}{\alpha 3.8235\text{d}}$
$\frac{1719.07}{1718.3}$	Fr <sub>87</sub> <sup>224</sup>	$\frac{224.02237}{224.02325}$	87n	2+0	8+0	18+0	8+12	1+23	0+15	0+0	$\frac{4.870\text{M}}{\beta^- 3.33\text{m}}$
$\frac{1731.89}{1731.6}$	Ra <sub>88</sub> <sup>226</sup>	$\frac{226.02510}{226.025410}$	88n	2+0	8+0	18+0	10+11	0+24	0+15	0+0	$\frac{4.87062\text{M}}{\alpha 1600\text{a}}$
$\frac{1740.96}{1741.7}$	Ac <sub>89</sub> <sup>228</sup>	$\frac{228.03185}{228.031021}$	89n	2+0	8+0	18+0	10+11	1+23	0+16	0+0	$\frac{4.820\text{M}}{\beta^- 6.15\text{m}}$
$\frac{1755.53}{1755.1}$	Th <sub>90</sub> <sup>230</sup>	$\frac{230.03270}{230.033134}$	90n	2+0	8+0	18+0	10+11	1+24	1+15	0+0	$\frac{4.7698\text{M}}{\alpha 7.54 \cdot 10^4\text{a}}$
$\frac{1764.46}{1765.4}$	Pa <sub>91</sub> <sup>232</sup>	$\frac{232.03960}{232.038592}$	91n	2+0	8+0	18+0	12+10	0+24	1+16	0+0	$\frac{4.617\text{M}}{\beta^- 1.32\text{d}}$
$\frac{1778.94}{1778.6}$	U <sub>92</sub> <sup>234</sup>	$\frac{234.04055}{234.040952}$	92n	2+0	8+0	18+0	14+9	0+25	0+16	0+0	$\frac{4.8598\text{M}}{\alpha 245500\text{a}}$
$\frac{1789.61}{1788.7}$	Np <sub>93</sub> <sup>236</sup>	$\frac{236.04559}{236.04657}$	93n	2+0	8+0	18+0	14+9	0+25	1+16	0+0	$\frac{5.010\text{M}}{ce 153 \cdot 10^3\text{a}}$
$\frac{1800.22}{1801.3}$	Pu <sub>94</sub> <sup>238</sup>	$\frac{238.05068}{238.049560}$	94n	2+0	8+0	18+0	16+8	0+25	0+17	0+0	$\frac{5.5932\text{M}}{\alpha 87.7\text{a}}$

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$\frac{1810.78}{1811.3}$	Am <sub>95</sub> <sup>240</sup>	$\frac{240.05584}{240.05528}$	95n	2+0	8+0	18+0	16+8	0+25	1+17	0+0	$\frac{5.710\text{M}}{ce\ 50.8h}$
$\frac{1821.26}{1823.4}$	Cm <sub>96</sub> <sup>242</sup>	$\frac{242.06108}{242.058781}$	96n	2+0	8+0	18+0	18+7	0+25	0+18	0+0	$\frac{6.21556\text{M}}{\alpha\ 162.8d}$
$\frac{1831.67}{1832.8}$	Bk <sub>97</sub> <sup>244</sup>	$\frac{244.06639}{244.06518}$	97n	2+0	8+0	18+0	18+7	0+25	1+18	0+0	$\frac{6.779\text{M}}{ce\ 4.35h}$
$\frac{1842.03}{1844.8}$	Cf <sub>98</sub> <sup>246</sup>	$\frac{246.07176}{246.06879}$	98n	2+0	8+0	18+0	20+6	0+25	0+19	0+0	$\frac{6.8616\text{M}}{\alpha\ 35.7h}$
$\frac{1852.31}{1853.9}$	Es <sub>99</sub> <sup>248</sup>	$\frac{248.07721}{248.075471}$	99n	2+0	8+0	18+0	20+6	0+25	1+19	0+0	$\frac{7.160\text{M}}{ce\ 27.0m}$
$\frac{1862.53}{1865.5}$	Fm <sub>100</sub> <sup>250</sup>	$\frac{250.08273}{250.079521}$	100n	2+0	8+0	18+0	22+5	0+25	0+20	0+0	$\frac{7.556\text{M}}{\alpha\ 30.0m}$
$\frac{1872.69}{1874.3}$	Md <sub>101</sub> <sup>252</sup>	$\frac{252.08831}{252.08656}$	101n	2+0	8+0	18+0	22+5	0+25	1+20	0+0	$\frac{7.780\text{M}}{ce\ 2.30m}$
$\frac{1882.78}{1885.6}$	No <sub>102</sub> <sup>254</sup>	$\frac{254.09397}{254.090955}$	102n	2+0	8+0	18+0	24+4	0+25	0+21	0+0	$\frac{8.226\text{M}}{\alpha\ 51.0s}$
$\frac{1892.81}{1893.8}$	Lw <sub>103</sub> <sup>256</sup>	$\frac{256.09969}{256.098629}$	103n	2+0	8+0	18+0	24+4	0+25	1+21	0+0	$\frac{8.810\text{M}}{\alpha\ 27.0s}$
$\frac{1902.77}{1905.4}$	Rf <sub>104</sub> <sup>258</sup>	$\frac{258.10549}{258.10349}$	104n	2+0	8+0	18+0	26+3	0+25	0+22	0+0	$\frac{9.190\text{M}}{FS\ 14.7ms}$
$\frac{1912.67}{1912.7}$	Db <sub>105</sub> <sup>260</sup>	$\frac{260.11135}{260.1113}$	105n	2+0	8+0	18+0	26+3	0+25	1+22	0+0	$\frac{9.190\text{M}}{\alpha\ 1.52s}$
$\frac{1922.51}{1923.3}$	Sg <sub>106</sub> <sup>262</sup>	$\frac{262.11728}{262.11640}$	106n	2+0	8+0	18+0	28+2	0+25	0+23	0+0	$\frac{9.600\text{M}}{FS\ 6.90ms}$
$\frac{1931.09}{1931.1}$	Bh <sub>107</sub> <sup>264</sup>	$\frac{264.12460}{264.12460}$	107n	2+0	8+0	18+0	28+2	0+25	0+23	1+0	$\frac{9.960\text{M}}{\alpha\ 0.44s}$
$\frac{1940.80}{1941.3}$	Hs <sub>108</sub> <sup>266</sup>	$\frac{266.13063}{266.13010}$	108n	2+0	8+0	18+0	28+2	0+25	1+23	1+0	$\frac{10.336\text{M}}{\alpha\ 2.30ms}$
$\frac{1949.25}{1948.6}$	Mt <sub>109</sub> <sup>268</sup>	$\frac{268.13804}{268.13873}$	109n	2+0	8+0	18+0	30+1	0+25	1+23	0+1	$\frac{10.74\text{M}}{\alpha\ 21.0ms}$
$\frac{1958.83}{1958.4}$	Ds <sub>110</sub> <sup>270</sup>	$\frac{270.14425}{270.14472}$	110n	2+0	8+0	18+0	32+0	0+25	0+24	0+1	$\frac{11.20\text{M}}{\alpha\ 0.10ms}$
$\frac{1965.56}{1965.5}$	Rg <sub>111</sub> <sup>272</sup>	$\frac{272.15351}{272.15361}$	111n	2+0	8+0	18+0	32+0	0+24	0+26	1+0	$\frac{11.45\text{M}}{\alpha\ 3.80ms}$

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$\frac{1975.80}{-}$	$\text{Uu}_{112}^{274}$	$\frac{274.15901}{-}$	112n	2+0	8+0	18+0	32+0	1+24	1+25	0+1	$\frac{11.33\text{M}}{-}$
$\frac{1982.39}{-}$	$\text{Uu}_{113}^{276}$	$\frac{276.16843}{-}$	113n	2+0	8+0	18+0	32+0	1+23	1+27	1+0	$\frac{11.48\text{M}}{-}$
$\frac{1989.70}{-}$	$\text{Uu}_{114}^{278}$	$\frac{278.17707}{-}$	114n	2+0	8+0	18+0	32+0	2+22	1+28	1+0	$\frac{14.40\text{M}}{-}$
$\frac{2028.10}{-}$	$\text{Uu}_{119}^{288}$	$\frac{288.21830}{-}$	119n	2+0	8+0	18+0	32+0	9+17	0+32	0+1	$\frac{-}{-}$
$\frac{2036.20}{-}$	$\text{Uu}_{120}^{290}$	$\frac{290.22609}{-}$	120n	2+0	8+0	18+0	32+0	8+17	1+33	1+0	$\frac{-}{-}$