

**TAVOLA PERIODICA DEI NUCLEI ATOMICI**  
**configurazione dei livelli nucleari degli isodiaferi I = +51**

$\frac{E_c(\text{MeV})}{E_s(\text{MeV})}$	Sa	$\frac{m_c}{m_s}$	n	1	2	3	4	5	6	7	$\frac{E_\alpha(\text{eV})}{T_{1/2}}$
$\frac{1632.96}{-}$	Au <sub>79</sub> <sup>209</sup>	$\frac{208.99156}{-}$	79n	2+0	8+0	16+1	0+16	1+23	1+10	0+1	$\frac{-}{\beta^- > 300\text{ns}}$
$\frac{1641.74}{-}$	Hg <sub>80</sub> <sup>211</sup>	$\frac{210.99863}{-}$	80n	2+0	8+0	18+0	0+16	0+23	0+11	1+1	$\frac{-}{\beta^- > 300\text{ns}}$
$\frac{1654.32}{-}$	Tl <sub>81</sub> <sup>213</sup>	$\frac{213.00161}{-}$	81n	2+0	8+0	18+0	2+15	0+23	0+12	0+1	$\frac{1.800\text{M}}{\beta^- 101\text{s}}$
$\frac{1666.77}{1666.7}$	Pb <sub>82</sub> <sup>215</sup>	$\frac{215.00473}{215.00481}$	82n	2+0	8+0	18+0	2+15	0+23	0+13	1+0	$\frac{2.600\text{M}}{\beta^- 147\text{s}}$
$\frac{1676.94}{1677.7}$	Bi <sub>83</sub> <sup>217</sup>	$\frac{217.01031}{217.00947}$	83n	2+0	8+0	18+0	4+14	0+23	0+13	0+1	$\frac{4.700\text{M}}{\beta^- 98.5\text{s}}$
$\frac{1689.22}{1689.1}$	Po <sub>84</sub> <sup>219</sup>	$\frac{219.01361}{219.01374}$	84n	2+0	8+0	18+0	4+14	0+23	0+14	1+0	$\frac{5.630\text{M}}{\beta^- 2\text{m}}$
$\frac{1700.37}{1700.4}$	At <sub>85</sub> <sup>221</sup>	$\frac{221.01813}{221.01805}$	85n	2+0	8+0	18+0	4+14	0+23	1+14	1+0	$\frac{5.500\text{M}}{\beta^- 2.30\text{m}}$
$\frac{1712.58}{1712.3}$	Rn <sub>86</sub> <sup>223</sup>	$\frac{223.02152}{223.02179}$	86n	2+0	8+0	18+0	6+13	0+23	1+15	0+0	$\frac{5.380\text{M}}{\beta^- 24.3\text{m}}$
$\frac{1723.63}{1724.2}$	Fr <sub>87</sub> <sup>225</sup>	$\frac{225.02614}{225.02557}$	87n	2+0	8+0	18+0	8+12	0+23	0+16	0+0	$\frac{4.580\text{M}}{\beta^- 3.95\text{m}}$
$\frac{1736.46}{1736.2}$	Ra <sub>88</sub> <sup>227</sup>	$\frac{227.02886}{227.029178}$	88n	2+0	8+0	18+0	8+12	1+23	0+16	0+0	$\frac{4.358\text{M}}{\beta^- 42.2\text{m}}$
$\frac{1747.38}{1747.9}$	Ac <sub>89</sub> <sup>229</sup>	$\frac{229.03363}{229.03302}$	89n	2+0	8+0	18+0	8+12	1+23	1+16	0+0	$\frac{4.510\text{M}}{\beta^- 62.7\text{m}}$
$\frac{1760.11}{1760.2}$	Th <sub>90</sub> <sup>231</sup>	$\frac{231.03645}{231.036304}$	90n	2+0	8+0	18+0	10+11	0+24	1+16	0+0	$\frac{4.2132\text{M}}{\beta^- 25.52\text{h}}$
$\frac{1772.78}{1771.9}$	Pa <sub>91</sub> <sup>233</sup>	$\frac{233.03934}{233.040247}$	91n	2+0	8+0	18+0	10+11	1+24	1+16	0+0	$\frac{4.320\text{M}}{\beta^- 26.975\text{d}}$
$\frac{1783.54}{1783.9}$	U <sub>92</sub> <sup>235</sup>	$\frac{235.04427}{235.043930}$	92n	2+0	8+0	18+0	12+10	1+24	0+17	0+0	$\frac{4.6802\text{M}}{\alpha 7.04 \cdot 10^8 \text{a}}$
$\frac{1796.11}{1795.3}$	Np <sub>93</sub> <sup>237</sup>	$\frac{237.04727}{237.048173}$	93n	2+0	8+0	18+0	14+9	0+25	0+17	0+0	$\frac{4.9582\text{M}}{\alpha 2.144 \cdot 10^6 \text{a}}$
$\frac{1806.73}{1806.9}$	Pu <sub>94</sub> <sup>239</sup>	$\frac{239.05236}{239.052163}$	94n	2+0	8+0	18+0	14+9	0+25	1+17	0+0	$\frac{5.24452\text{M}}{\alpha 24110\text{a}}$
$\frac{1817.30}{1817.9}$	Am <sub>95</sub> <sup>241</sup>	$\frac{241.05750}{241.05686}$	95n	2+0	8+0	18+0	16+8	0+25	0+18	0+0	$\frac{5.63781\text{M}}{\alpha 432.6\text{a}}$

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$\frac{1827.79}{1829.0}$	Cm <sub>96</sub> <sup>243</sup>	$\frac{243.06273}{243.061434}$	96n	2+0	8+0	18+0	16+8	0+25	1+18	0+0	$\frac{6.1688\text{M}}{\alpha 29.1\text{a}}$
$\frac{1838.23}{1839.8}$	Bk <sub>97</sub> <sup>245</sup>	$\frac{245.06801}{245.06633}$	97n	2+0	8+0	18+0	18+7	0+25	0+19	0+0	$\frac{6.4545\text{M}}{ce 4.95\text{d}}$
$\frac{1848.59}{1850.8}$	Cf <sub>98</sub> <sup>247</sup>	$\frac{247.07338}{247.07101}$	98n	2+0	8+0	18+0	18+7	0+25	1+19	0+0	$\frac{6.494\text{M}}{ce 3.11\text{h}}$
$\frac{1858.90}{1861.1}$	Es <sub>99</sub> <sup>249</sup>	$\frac{249.07880}{249.07644}$	99n	2+0	8+0	18+0	20+6	0+25	0+20	0+0	$\frac{6.900\text{M}}{ce 102.2\text{m}}$
$\frac{1869.13}{1871.7}$	Fm <sub>100</sub> <sup>251</sup>	$\frac{251.08431}{251.08155}$	100n	2+0	8+0	18+0	20+6	0+25	1+20	0+0	$\frac{7.4251\text{M}}{ce 5.30\text{h}}$
$\frac{1879.30}{1881.7}$	Md <sub>101</sub> <sup>253</sup>	$\frac{253.08988}{253.08728}$	101n	2+0	8+0	18+0	22+5	0+25	0+21	0+0	$\frac{7.572\text{M}}{ce 6.0\text{m}}$
$\frac{1889.40}{1891.5}$	No <sub>102</sub> <sup>255</sup>	$\frac{255.09553}{255.093241}$	102n	2+0	8+0	18+0	22+5	0+25	1+21	0+0	$\frac{8.428\text{M}}{ce 3.52\text{m}}$
$\frac{1899.45}{1901.0}$	Lw <sub>103</sub> <sup>257</sup>	$\frac{257.10123}{257.099568}$	103n	2+0	8+0	18+0	24+4	0+25	0+22	0+0	$\frac{9.010\text{M}}{\alpha 4\text{s}}$
$\frac{1909.42}{1911.5}$	Rf <sub>104</sub> <sup>259</sup>	$\frac{259.10702}{259.10564}$	104n	2+0	8+0	18+0	24+4	0+25	1+22	0+0	$\frac{9.130\text{M}}{\alpha 3.20\text{s}}$
$\frac{1919.34}{1920.0}$	Db <sub>105</sub> <sup>261</sup>	$\frac{261.11286}{261.11216}$	105n	2+0	8+0	18+0	26+3	0+25	0+23	0+0	$\frac{9.220\text{M}}{\alpha 1.80\text{s}}$
$\frac{1929.19}{1929.6}$	Sg <sub>106</sub> <sup>263</sup>	$\frac{263.11877}{263.11832}$	106n	2+0	8+0	18+0	26+3	0+25	1+23	0+0	$\frac{9.400\text{M}}{\alpha 1.0\text{s}}$
$\frac{1938.97}{1938.6}$	Bh <sub>107</sub> <sup>265</sup>	$\frac{265.12477}{265.12515}$	107n	2+0	8+0	18+0	28+2	0+25	0+24	0+0	$\frac{9.680\text{M}}{\alpha 0.90\text{s}}$
$\frac{1947.50}{1947.8}$	Hs <sub>108</sub> <sup>267</sup>	$\frac{267.13210}{267.13179}$	108n	2+0	8+0	18+0	28+2	0+25	0+24	1+0	$\frac{10.037\text{M}}{\alpha 52.0\text{ms}}$
$\frac{1955.97}{-}$	Mt <sub>109</sub> <sup>269</sup>	$\frac{269.13950}{-}$	109n	2+0	8+0	18+0	30+1	0+25	0+24	0+1	$\frac{10.50\text{M}}{\alpha 200\text{ms}}$
$\frac{1965.56}{1965.2}$	Ds <sub>110</sub> <sup>271</sup>	$\frac{271.14569}{271.14606}$	110n	2+0	8+0	18+0	30+1	0+25	1+24	0+1	$\frac{10.87\text{M}}{\alpha 1.63\text{ms}}$
$\frac{1973.09}{1973.5}$	Rg <sub>111</sub> <sup>273</sup>	$\frac{273.15410}{273.15368}$	111n	2+0	8+0	18+0	30+1	1+24	1+25	0+1	$\frac{11.37\text{M}}{\alpha 5\text{ms}}$
$\frac{1982.56}{-}$	Uu <sub>112</sub> <sup>275</sup>	$\frac{275.16042}{-}$	112n	2+0	8+0	18+0	32+0	1+24	0+26	0+1	$\frac{11.30\text{M}}{-}$

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$\frac{1989.16}{-}$	$\text{Uu}_{113}^{277}$	$\frac{277.16982}{-}$	113n	2+0	8+0	18+0	32+0	1+23	0+28	1+0	$\frac{12.22M}{-}$
$\frac{1996.48}{-}$	$\text{Uu}_{114}^{279}$	$\frac{279.17846}{-}$	114n	2+0	8+0	18+0	32+0	2+22	0+29	1+0	$\frac{14.38M}{-}$
$\frac{2003.70}{-}$	$\text{Uu}_{115}^{281}$	$\frac{281.18719}{-}$	115n	2+0	8+0	18+0	32+0	3+21	0+30	1+0	$\frac{13.76M}{-}$
$\frac{2011.70}{-}$	$\text{Uu}_{116}^{283}$	$\frac{283.19510}{-}$	116n	2+0	8+0	18+0	32+0	5+20	0+30	0+1	$\frac{14.38M}{-}$
$\frac{2018.80}{-}$	$\text{Uu}_{117}^{285}$	$\frac{285.20397}{-}$	117n	2+0	8+0	18+0	32+0	6+19	0+31	0+1	$\frac{13.08M}{-}$
$\frac{2027.10}{-}$	$\text{Uu}_{118}^{287}$	$\frac{287.21154}{-}$	118n	2+0	8+0	18+0	32+0	5+19	1+32	1+0	$\frac{12.89M}{-}$
$\frac{2034.90}{-}$	$\text{Uu}_{119}^{289}$	$\frac{289.21966}{-}$	119n	2+0	8+0	18+0	32+0	7+18	1+32	0+1	$\frac{12.19M}{-}$
$\frac{2045.10}{-}$	$\text{Uu}_{120}^{291}$	$\frac{291.22520}{-}$	120n	2+0	8+0	18+0	32+0	7+18	1+33	1+0	$\frac{10.30M}{-}$