

From	n°	To n°										PRIMARY																										
		DE-EXCITED STATES																																				
		1/2		1/3		1/4		1/5		1/6		1/7		1/8		1/9		1/10		1/11		1/12		1/13		1/14		1/15		1/16		1/17		1/18		1/19		1/20
1	Selenium	54.6	0.33% Copper	122.5	0.04% Praseodymium	217.6	-0.04% Palladium	340.5	0.11% Tungsten	490.4	0.12% Indium	665.3	-0.21% Tellurium	870.8	0.00% Radon	1097.0	-0.46% Lanthanum	1362	0.11%																			
	Lithium	54.7	0.51% Thallium	122.2	-0.20% Hafnium	220.0	1.00% Ytterbium	339.7	-0.13% Tin	492.2	0.69% Palladium	671.6	0.74% Neon	870.2	-0.66% Copper	1096.7	-0.49% Promethium	1357	-0.26%																			
	Thulium	54.7	0.51% Indium	122.9	0.37% Krypton	214.4	-1.51% Thorium	342.4	0.66% Indium	495.8	1.22% Thorium	675.2	1.28% Nickel	870.0	-0.09% Samarium	1110.9	0.80% Holmium	1351	-0.70%																			
	Osmium	53.4	-1.87% Iodine	123.0	0.45% Radon	214.0	-1.70% Zirconium	343.5	0.99% Ruthenium	483.5	-1.29% Osmium	658.2	-1.27% Iodine	875.0	0.49% Gallium	1116.4	1.30% Praseodymium	1337	-1.73%																			
	Palladium	55.7	2.35% Germanium	120.8	-1.35% Krypton	222.2	2.07% Holmium	343.5	0.99% Rhodium	496.5	1.37% Xenon	676.4	1.46% Radon	879.0	0.95% Lanthanum	1128.0	2.35% Protactinium	1387	1.94%																			
	Iron	52.7	-3.16% Neodymium	120.5	-1.59% Xenon	213.2	-2.06% Gold	335.1	-1.48% Scandium	498.0	1.67% Mercury	680.2	2.03% Cerium	883.8	1.50% Iodine	1072.0	-2.73% Dysprosium	1333	-2.03%																			
	Niobium	56.4	3.64% Germanium	124.9	2.00% Cerium	223.2	2.53% Calcium	346.6	1.89% Ytterbium	490.5	-1.90% Cadmium	652.6	-2.11% Tin	884.7	1.60% Cesium	1071.0	-2.62% Thallium	1330	-2.25%																			
	Ytterbium	52.0	-4.45% Praseodymium	120.0	-2.00% Hafnium	211.5	-2.84% Dysprosium	333.5	-1.95% Osmium	470.7	-3.90% Manganese	649.9	-2.52% Lanthanum	853.0	-2.04% Sodium	1070.8	-2.84% Neodymium	1403	3.12%																			
	Gold	57.2	5.11% Radon	127.0	3.72% Samarium	224.6	3.17% Neodymium	347.2	2.08% Molybdenum	506.3	3.37% Lead	643.5	-3.48% Lead	891.8	2.42% Europium	1136.8	3.15% Erbium	1409	3.56%																			
	Scandium	51.1	-6.10% Mercury	127.0	6.10% Mercury	226.4	4.00% Platinum	331.6	-2.51% Vanadium	512.1	4.55% Gold	642.7	-3.60% Thallium	846.2	-2.82% Barium	1137.0	3.17% Germanium	1414	3.93%																			
2	Iodine	50.6	-7.02% Aluminium	117.8	-3.80%																																	
	Scandium	51.1	0.16% Bismuth	119.0	-0.04% Krypton	214.4	0.05% Gold	335.1	-0.49% Tin	484.9	-0.31% Indium	665.3	0.30% Nickel	870.0	0.30%																							
	Palladium	50.9	-0.24% Praseodymium	120.0	0.80% Radon	214.0	-0.14% Ytterbium	339.7	0.88% Ruthenium	483.5	-0.60% Osmium	658.2	-0.77% Neon	870.2	0.33%																							
	Erbium	50.6	-0.82% Aluminium	117.8	-1.05% Xenon	213.2	-0.51% Dysprosium	333.5	-0.96% Tungsten	490.4	0.82% Palladium	671.6	1.25% Tellurium	870.8	0.40%																							
	Osmium	50.6	-0.82% Thallium	117.7	-1.13% Praseodymium	217.6	1.54% Palladium	340.5	1.12% Ytterbium	480.5	-1.21% Cadmium	652.6	-1.61% Iodine	875.0	0.88%																							
	Iodine	50.6	-0.82% Neodymium	120.5	1.22% Hafnium	211.5	-1.30% Platinum	331.6	-1.53% Indium	495.8	1.93% Thorium	675.2	1.80% Radon	879.0	1.94%																							
	Zirconium	50.6	0.82% Germanium	120.8	1.47% Lutetium	220.1	1.68% Rhenium	342.4	1.68% Rhenium	495.5	2.08% Ytterbium	676.4	1.98% Lanthanum	853.0	-1.66%																							
	Rhenium	50.5	-1.02% Thallium	122.2	2.65% Cerium	223.2	4.16% Zirconium	343.5	2.01% Scandium	498.0	2.38% Manganese	649.9	-2.02% Cerium	883.8	1.90%																							
	Platinum	51.7	1.33% Copper	122.5	2.90% Lanthanum	225.8	-3.96% Holmium	343.5	2.01% Thulium	470.9	-3.19% Mercury	680.2	2.55% Tin	884.7	2.00%																							
	Ytterbium	52.0	1.92% Indium	122.9	3.23% Niobium	205.0	4.43% Calcium	346.6	2.92% Osmium	470.7	-3.23% Lead	643.5	-2.98% Thallium	846.2	-2.44%																							
3	Dysprosium	49.9	-2.20% Iodine	123.0	3.32% Neodymium	224.6	4.81% Scandium	335.1	3.11% Molybdenum	506.3	4.09% Gold	642.7	-3.10% Iron	844.6	-2.62%																							
	Magnesium	49.8	-2.43% Krypton	113.0	-5.08% Tantalum	226.4	5.65% Rubidium	326.7	-3.98% Lutetium	508.8	4.19% Chromium	696.0	4.93% Lead	891.8	2.82%																							
	Iron	52.7	3.29% Rubidium	112.0	-5.92%																																	
	Holmium	49.3	-3.37%																																			
	Lithium	54.6	7.02%																																			
	Thorium	41.4	1.42% Cerium	109.0	0.14% Arsenic	204.7	0.30% Rubidium	326.7	0.05% Ytterbium	480.5	0.90% Cadmium	652.6	-0.07% Lanthanum	853.0	-0.49% Samarium	1083.4	-0.46% Holmium	1351	0.30% Lutetium	1639.0	0.39% Rhenium	1949	0.17% Tungsten	2281	-0.21%													
	Arsenic	41.6	1.96% Gold	107.2	-1.52% Lanthanum	205.0	0.45% Argon	326.3	-0.07% Thulium	470.9	-1.11% Manganese	649.9	-0.49% Nickel	852.7	-0.52% Copper	1096.7	0.76% Praseodymium	1337	-0.74% Europium	1950	0.23% Gold	2291	0.23%															
	Tellurium	41.9	2.65% Nickel	110.8	1.79% Niobium	202.3	-0.88% Zirconium	329.8	1.00% Osmium	470.7	-1.15% Osmium	658.2	0.79% Thallium	846.2	-1.28% Radon	1097.0	0.78% Dysprosium	1333	-1.04% Selenium	1652.0	1.18% Strontium	1940	-0.29% Mercury	2295	0.40%													
	Chromium	42.2	3.38% Lead	106.4	-2.25% Lutetium	206.1	0.98% Terbium	322.4	-1.27% Ruthenium	483.5	1.53% Lead	643.5	-1.47% Iron	844.6	-1.47% Iodine	1072.0	-1.51% Lanthanum	1362	1.12% Terbium	1611.0	-1.33% Osmium	1960	0.74% Zirconium	2307	0.93%													
	Tantalum	42.2	3.38% Beryllium	111.5	2.43% Chlorine	202.0	-1.02% Platinum	331.6	1.55% Tin	484.9	1.83% Gold	642.7	-1.59% Neon	870.2	1.52% Cesium	1071.0	-1.60% Thorium	1330	-1.26% Hafnium	1662.0	1.80% Terbium	1968	1.15% Thulium	2307	0.93%													
4	Strontium	38.9	-4.70% Rubidium	112.0	2.89% Cerium	206.5	1.18% Neon	331.6	1.01% Niobium	483.5	1.20% Indium	652.6	-1.01% Sodium	870.2	1.01% Magnesium	1070.8	-1.62% Neodymium	1303	-3.26% Dysprosium	1676.0	2.65% Holmium	1923	-1.16% Lutetium	2264	-0.95%													
	Ruthenium	43.2	5.83% Lanthanum	105.3	-3.26% Hafnium	211.5	3.63% Palladium	335.1	2.62% Bismuth	464.0	-2.56% Palladium	671.6	2.84% Iodine	875.0	2.08% Samarium	1299	-3.56% Krypton	1920	-1.32% Strontium	2216	-3.05%																	
			Aluminium	117.8	8.22%																																	
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