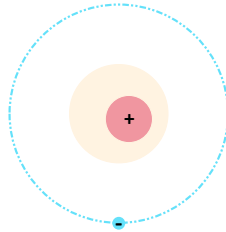


# Elements and Atoms - one per page

Printed 6/14/2022, 1/118

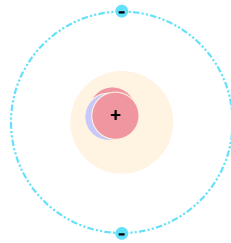
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>H</b>	1	1.008	<b>Hydrogen</b> 1 Alkali Metal +H 1A Lithium Group	1s1 Nonmetal Basic Organic	0



# Elements and Atoms - one per page

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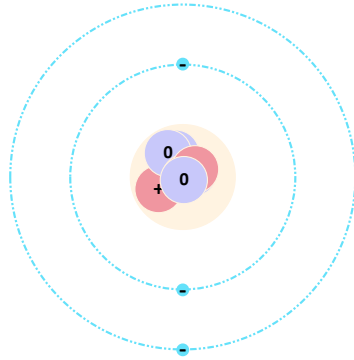
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>He</b>	2	4.003	<b>Helium</b> 18 Noble Gas 8A Helium Group	1s2 Noble Gas	2



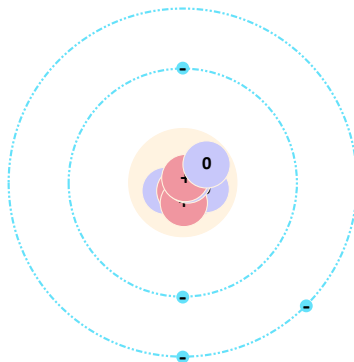
# Elements and Atoms - one per page

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Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
Li	3	6.941	<b>Lithium</b> 1 Alkali Metal +H 1A Lithium Group	[He]2s1 Alkali Metal Suggested Trace	4



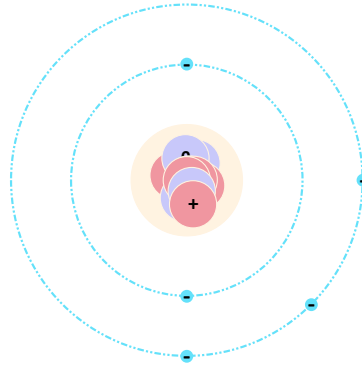
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Be</b>	4	9.012	<b>Beryllium</b> 2 Alkaline Earth Metal 2A Beryllium Group	[He]2s2 Alkaline Earth Metal	5



# Elements and Atoms - one per page

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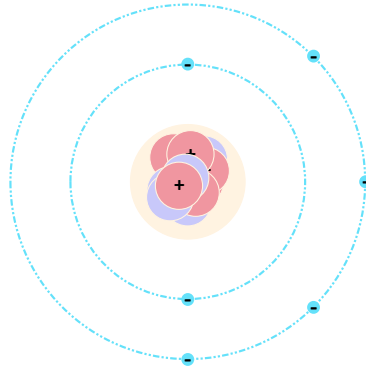
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>B</b>	5	10.31	<b>Boron</b> 13 Triel 3A Boron Group	[He]2s <sup>2</sup> 2p <sup>1</sup> Metalloid Suggested Trace	5



# Elements and Atoms - one per page

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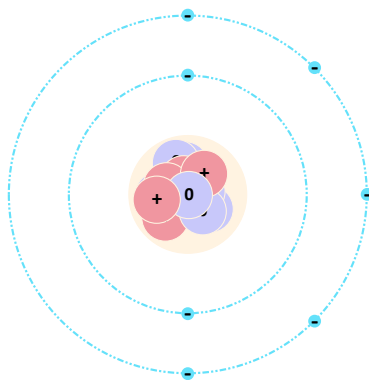
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>C</b>	6	12.01	<b>Carbon</b> 14 Tetrel 4A Carbon Group	[He]2s <sup>2</sup> 2p <sup>2</sup> Nonmetal Basic Organic	6



# Elements and Atoms - one per page

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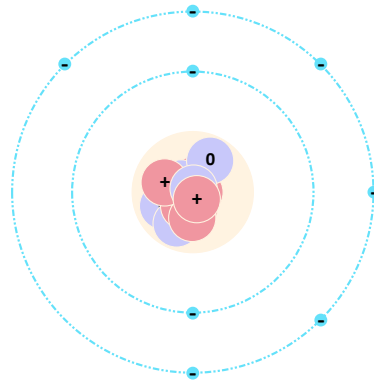
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>N</b>	7	14.01	<b>Nitrogen</b> 15 Pnictogen 5A Nitrogen Group	[He]2s2 2p3 Nonmetal Basic Organic	7



# Elements and Atoms - one per page

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Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>O</b>	8	16	<b>Oxygen</b> 16 Chalcogen 6A Oxygen Group	[He]2s2 2p4 Nonmetal Basic Organic	8

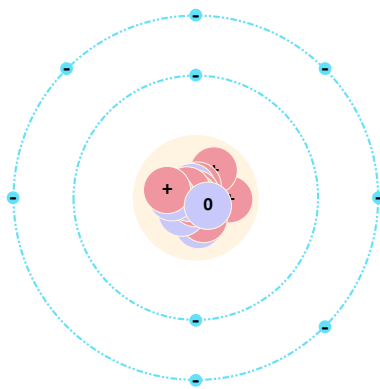




# Elements and Atoms - one per page

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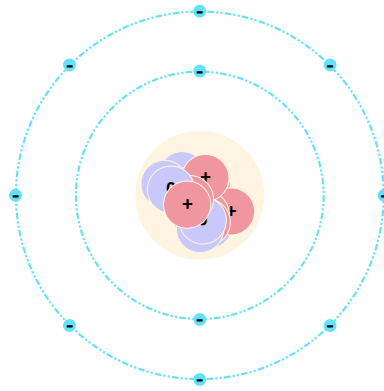
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>F</b>	9	19	<b>Flourine</b> 17 Halogen 7A Flourine Group	[He]2s2 2p5 Halogen Suggested Trace	10



# Elements and Atoms - one per page

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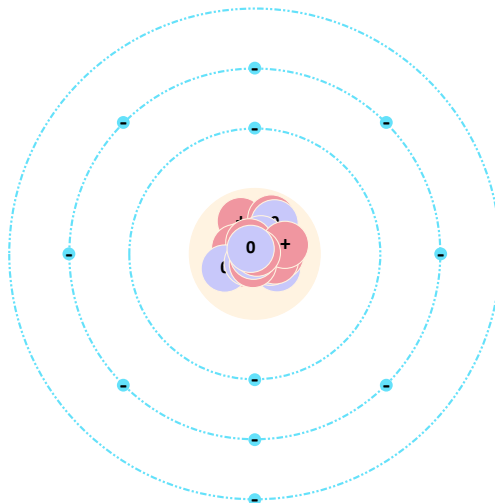
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Ne</b>	10	20.18	<b>Neon</b> 18 Noble Gas 8A Helium Group	[He]2s <sup>2</sup> 2p <sup>6</sup> Noble Gas	10



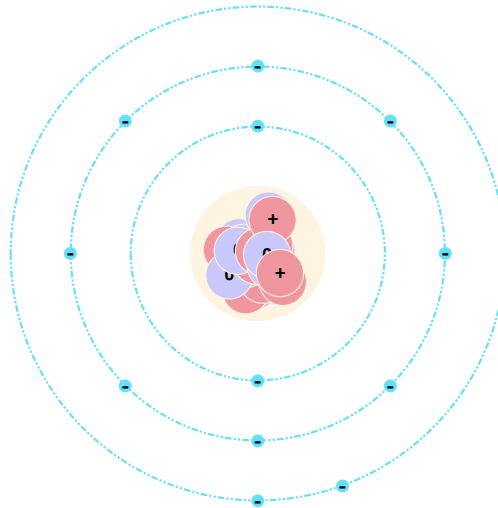
# Elements and Atoms - one per page

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Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Na</b>	11	22.99	<b>Sodium</b> 1 Alkali Metal +H 1A Lithium Group	[Ne]3s1 Alkali Metal Quantity	12



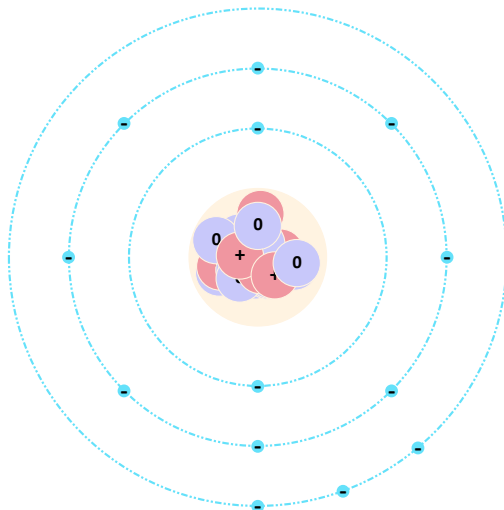
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Mg</b>	12	24.31	<b>Magnesium</b> 2 Alkaline Earth Metal 2A Beryllium Group	[Ne]3s2 Alkaline Earth Metal Quantity	12



# Elements and Atoms - one per page

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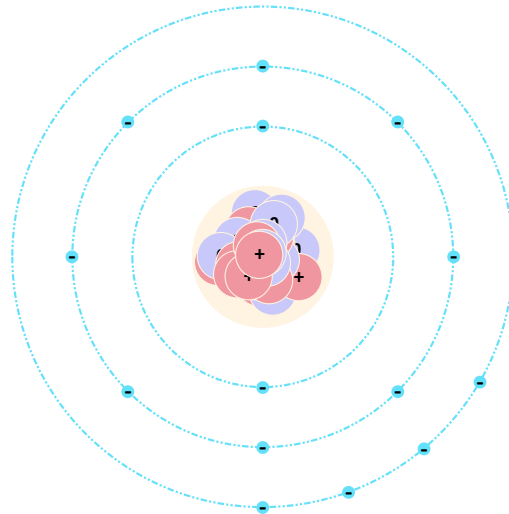
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Al</b>	13	26.982	<b>Aluminum</b> 13 Triel 3A Boron Group	[Ne]3s <sup>2</sup> 3p <sup>1</sup> Basic Metal Trace Circumstantial	14



# Elements and Atoms - one per page

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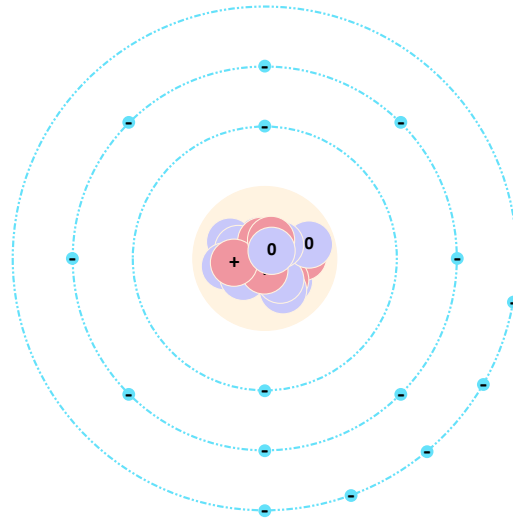
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Si</b>	14	28.086	<b>Silicon</b> 14 Tetre 4A Carbon Group	[Ne]3s <sup>2</sup> 3p <sup>2</sup> Metalloid Suggested Trace	14



# Elements and Atoms - one per page

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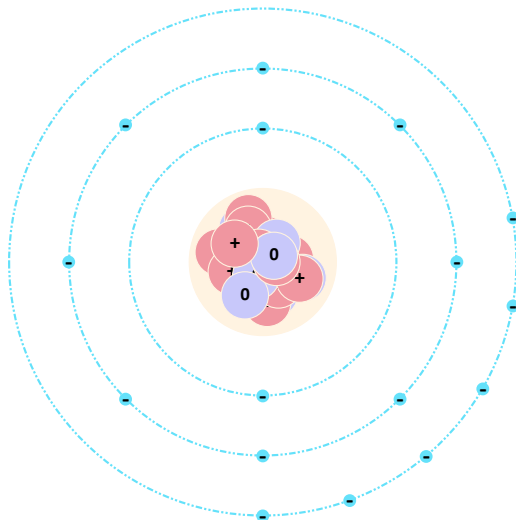
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>P</b>	15	30.97	<b>Phosphorus</b> 15 Pnictogen 5A Nitrogen Group	<b>[Ne]3s<sup>2</sup> 3p<sup>3</sup></b> Nonmetal Quantity	<b>16</b>



# Elements and Atoms - one per page

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Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>S</b>	16	32.07	<b>Sulfur</b> 16 Chalcogen 6A Oxygen Group	[Ne]3s <sup>2</sup> 3p <sup>4</sup> Nonmetal Quantity	16

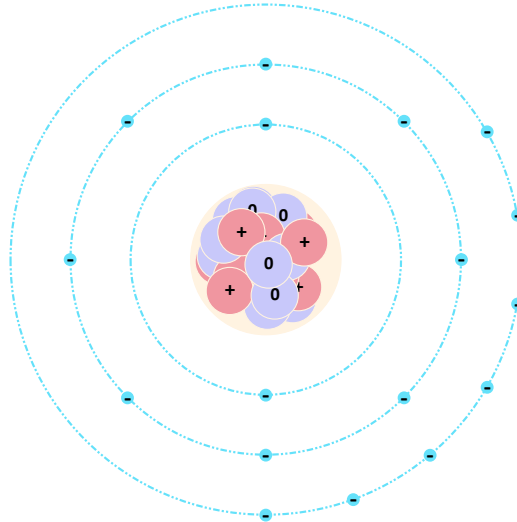




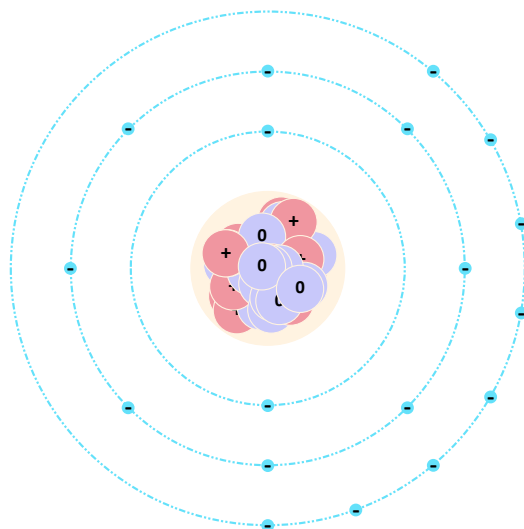
# Elements and Atoms - one per page

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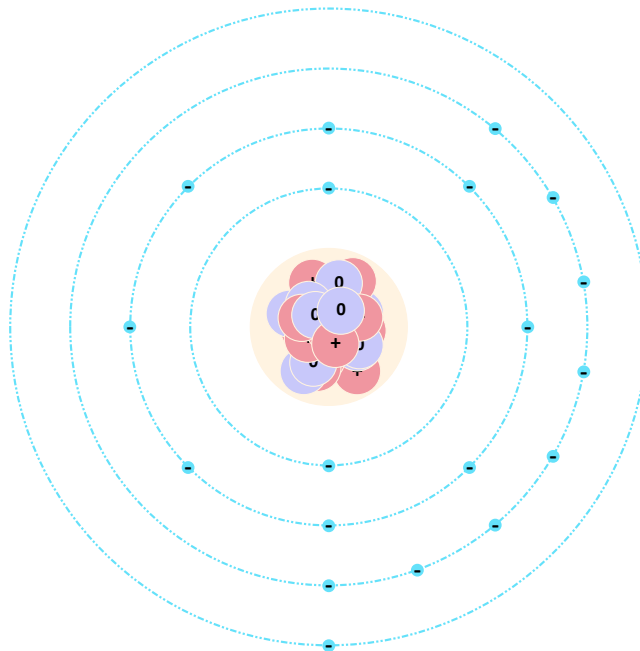
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Cl</b>	17	35.45	<b>Chlorine</b> 17 Halogen 7A Flourine Group	[Ne]3s2 3p5 Halogen Quantity	18



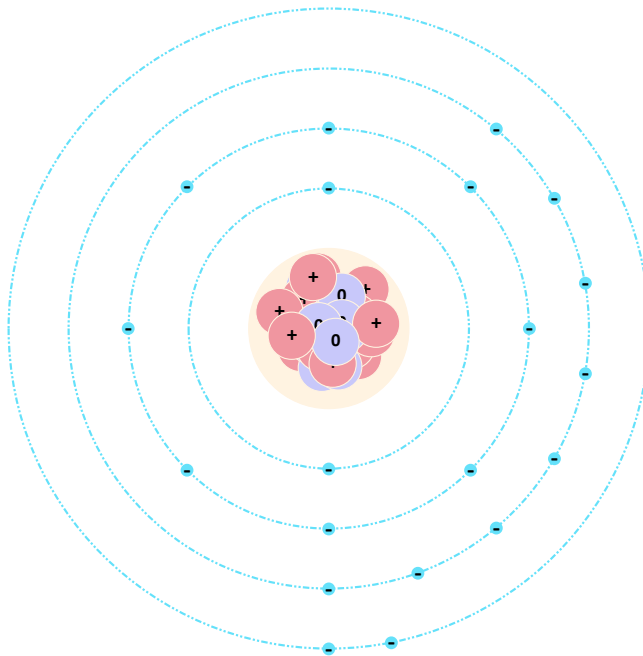
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Ar</b>	18	39.948	<b>Argon</b> 18 Noble Gas 8A Helium Group	<b>[Ne]3s<sup>2</sup> 3p<sup>6</sup></b> Noble Gas	22



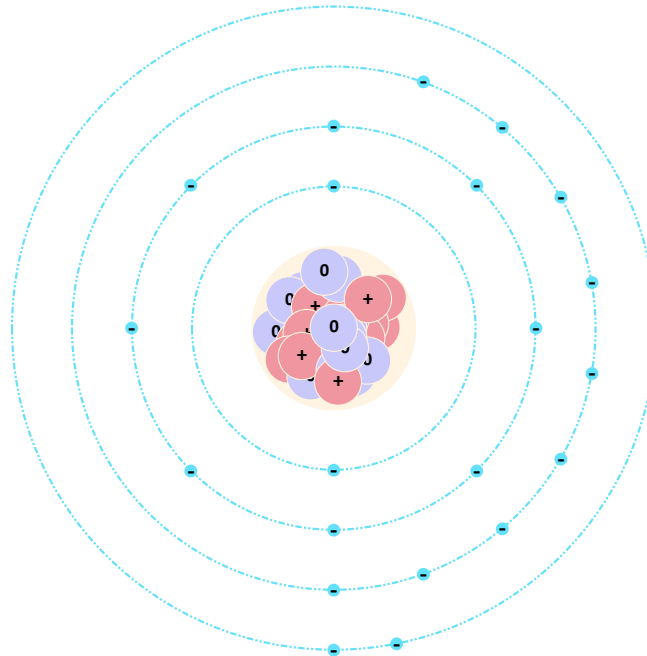
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>K</b>	19	39.1	<b>Potassium</b> 1 Alkali Metal +H 1A Lithium Group	[Ar]4s1 Alkali Metal Quantity	20



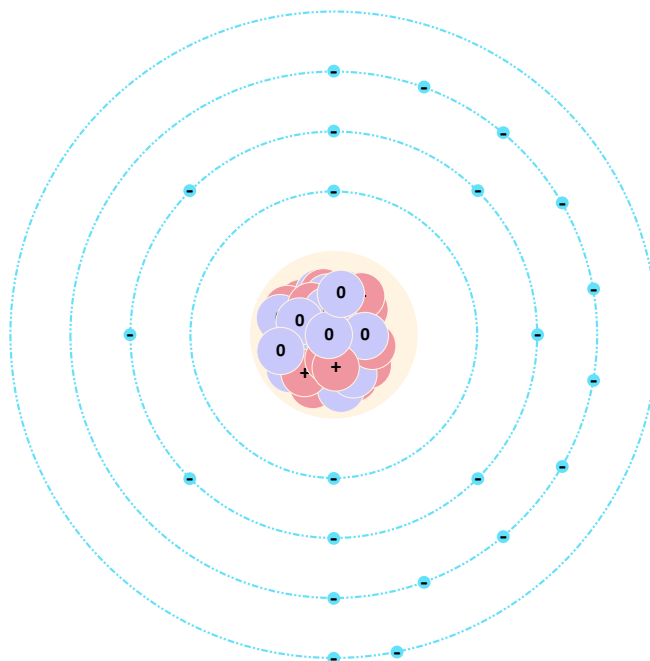
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
Ca	20	40.08	<b>Calcium</b> 2 Alkaline Earth Metal 2A Beryllium Group	[Ar]4s2 Alkaline Earth Metal Quantity	20



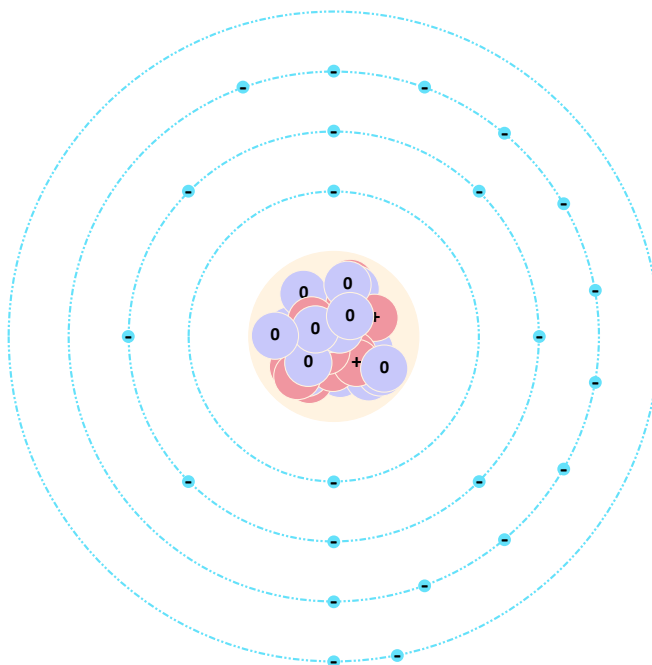
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Sc</b>	21	44.956	<b>Scandium</b> 3 Transition Metal 3 3B Scandium Group	[Ar]3d1 4s2 Transition Metal	24



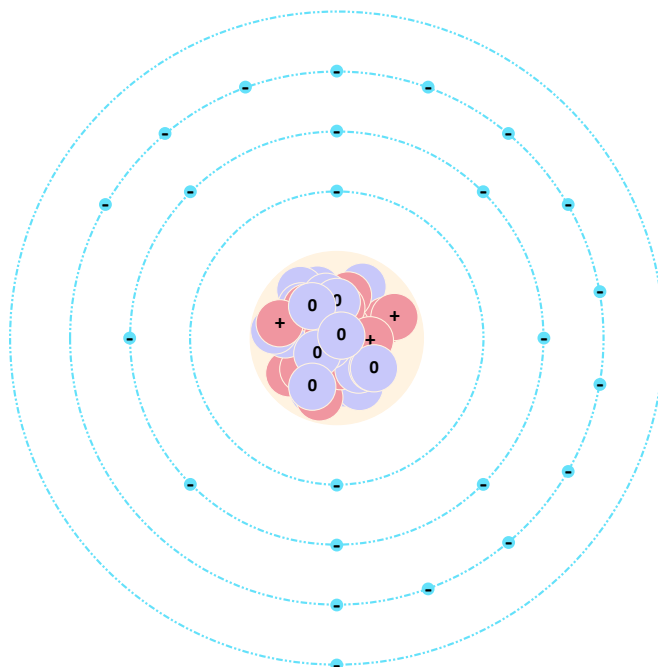
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Ti</b>	22	47.867	<b>Titanium</b> 4 Transition Metal 4 4B Titanium Group	[Ar]3d2 4s2 Transition Metal	26



Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
V	23	50.94	<b>Vanadium</b> 5 Transition Metal 5 5B Vanadium Group	[Ar]3d3 4s2 Transition Metal Suggested Trace	28

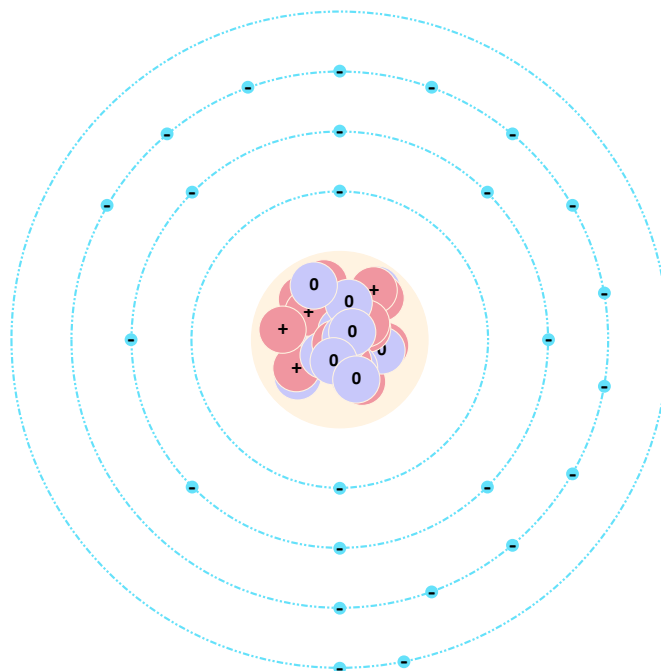


Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Cr</b>	24	52	<b>Chromium</b> 6 Transition Metal 6 6B Chromium Group	[Ar]3d5 4s1 Transition Metal Trace by USA	28





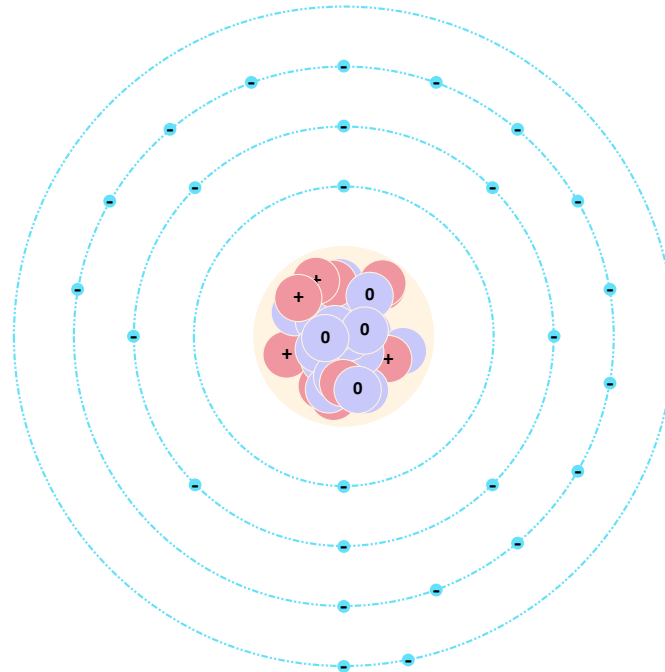
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
Mn	25	54.94	<b>Manganese</b> 7 Transition Metal 7 7B Manganese Group	[Ar]3d5 4s2 Transition Metal Essential Trace	30



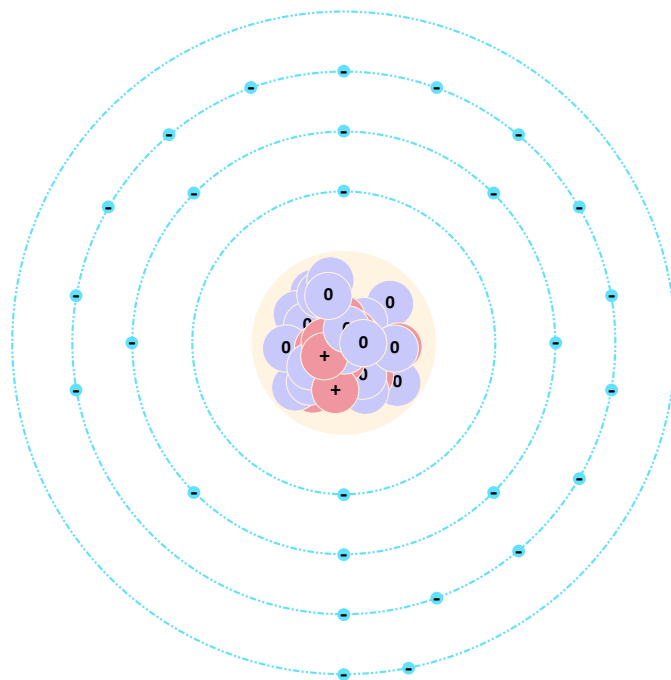
# Elements and Atoms - one per page

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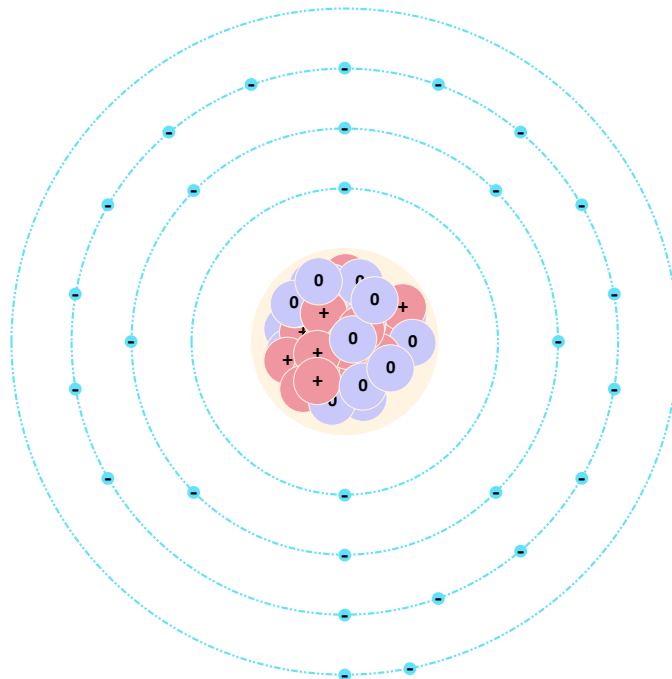
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Fe</b>	26	55.85	<b>Iron</b> 8 Transition Metal 8 8B Iron Group	[Ar]3d6 4s2 Transition Metal Essential Trace	30



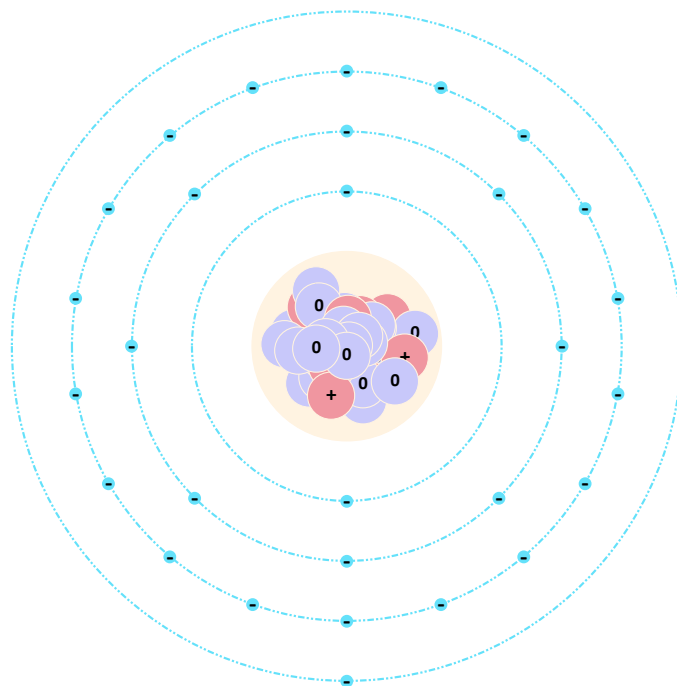
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
Co	27	58.93	<b>Cobalt</b> 9 Transition Metal 8 (9) 8B Cobalt Group	[Ar]3d7 4s2 Transition Metal Essential Trace	32



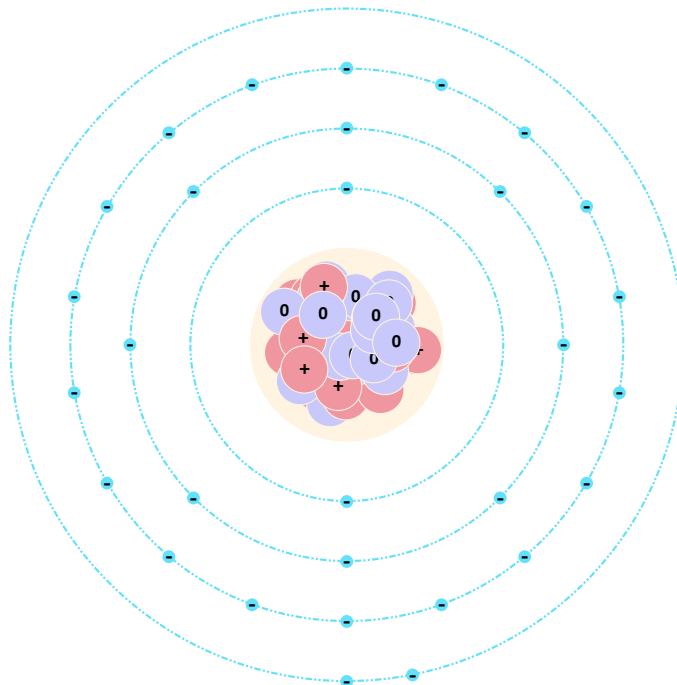
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
Ni	28	58.69	<b>Nickel</b> 10 Transition Metal 8 (10) 8B Nickel Group	[Ar]3d8 4s2 Transition Metal Suggested Trace	31



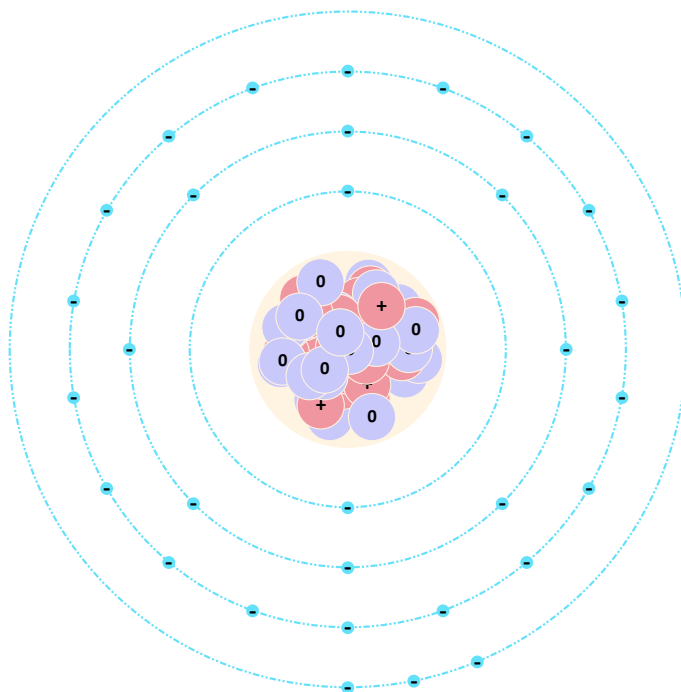
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Cu</b>	29	63.55	<b>Copper</b> 11 Transition Metal (coins) 1B Copper Group	[Ar]3d10 4s1 Transition Metal Essential Trace	35



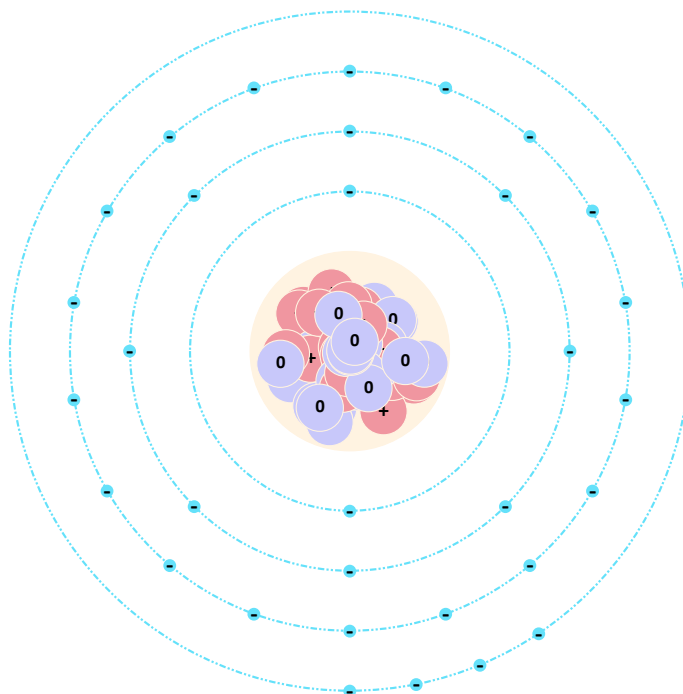
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
Zn	30	65.39	<b>Zinc</b> 12 Volatile Metal 2B Zinc Group	[Ar]3d10 4s2 Transition Metal Essential Trace	35



Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Ga</b>	31	69.723	<b>Gallium</b> 13 Triel 3A Boron Group	[Ar]3d10 4s2 4p1 Basic Metal	39

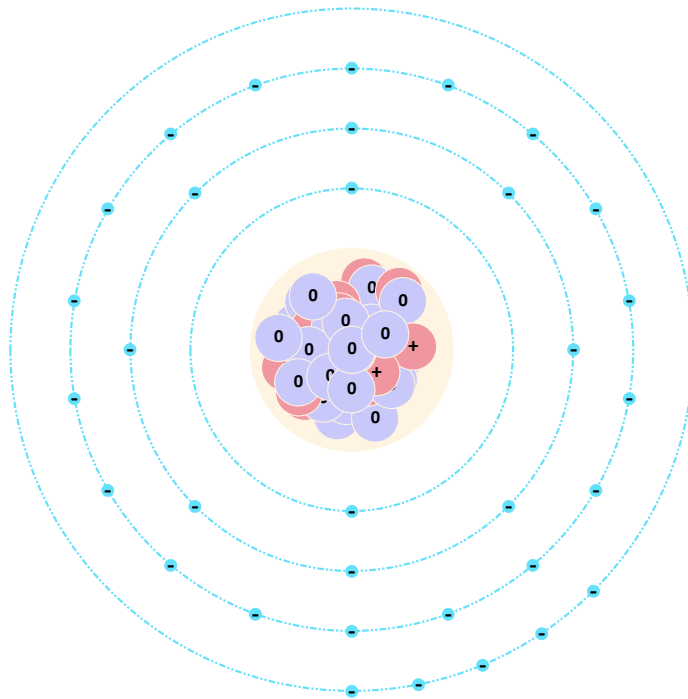


Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Ge</b>	32	72.64	<b>Germanium</b> 14 Tetrel 4A Carbon Group	[Ar]3d10 4s2 4p2 Metalloid Trace Circumstantial	41

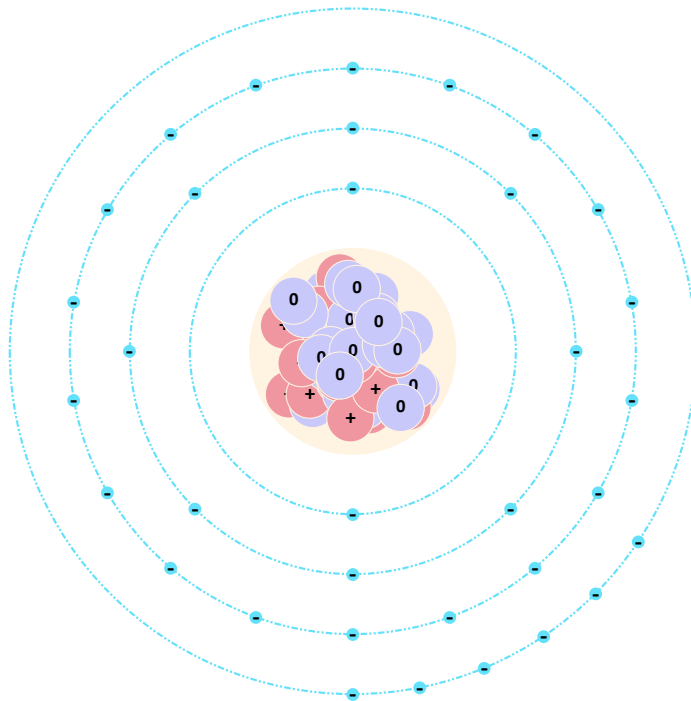




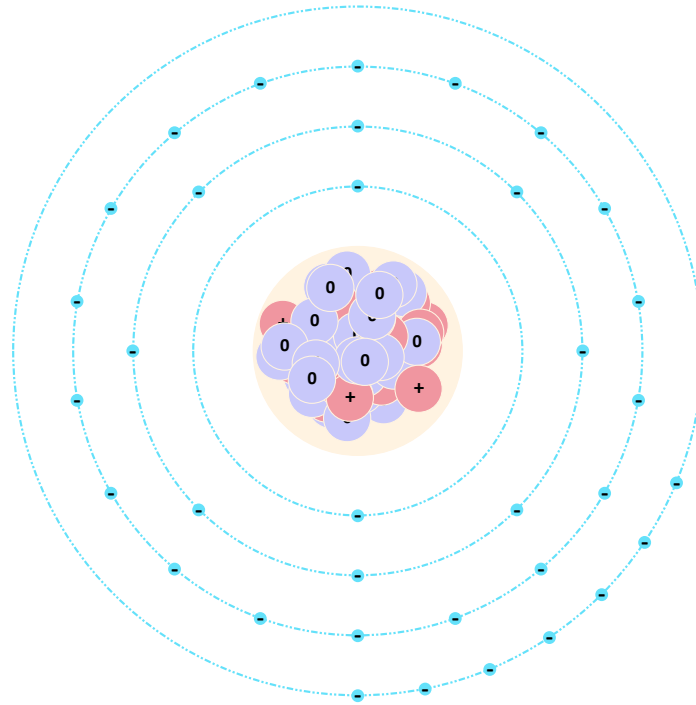
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
As	33	74.922	<b>Arsenic</b> 15 Pnictogen 5A Nitrogen Group	[Ar]3d10 4s2 4p3 Metalloid Trace Circumstantial	42



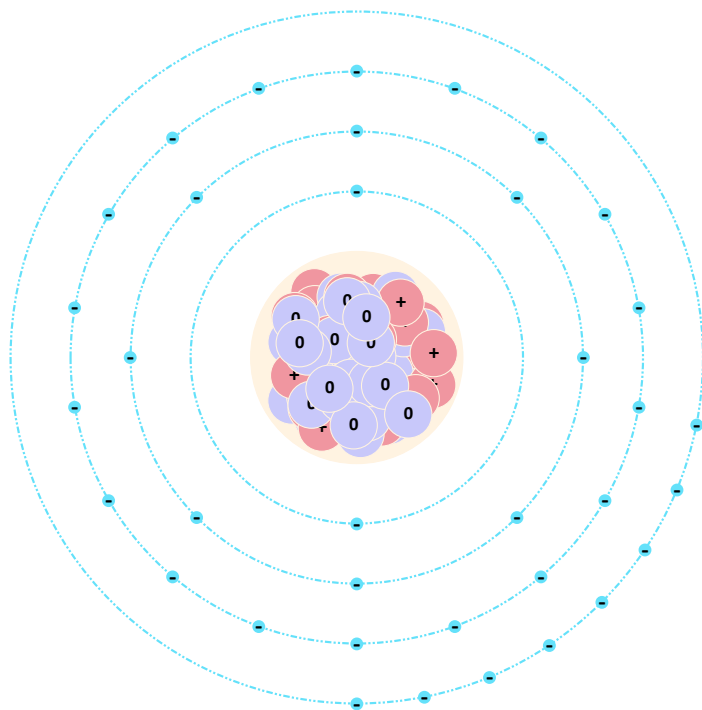
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
Se	34	78.96	<b>Selenium</b> 16 Chalcogen 6A Oxygen Group	[Ar]3d10 4s2 4p4 Nonmetal Essential Trace	45



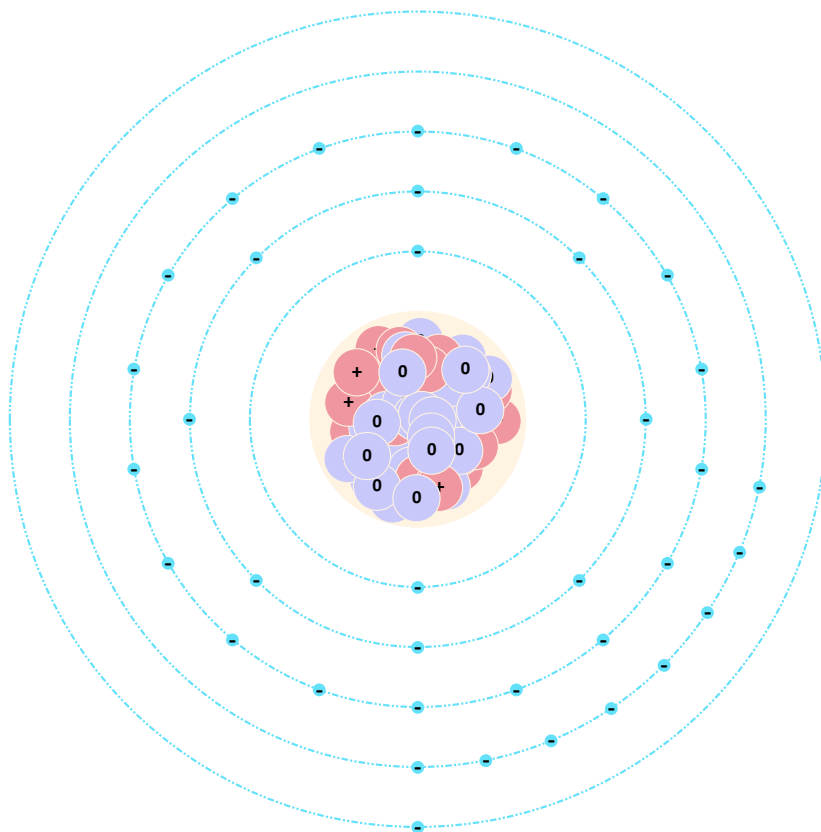
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Br</b>	35	79.904	<b>Bromine</b> 17 Halogen 7A Flourine Group	[Ar]3d10 4s2 4p5 Halogen Suggested Trace	45



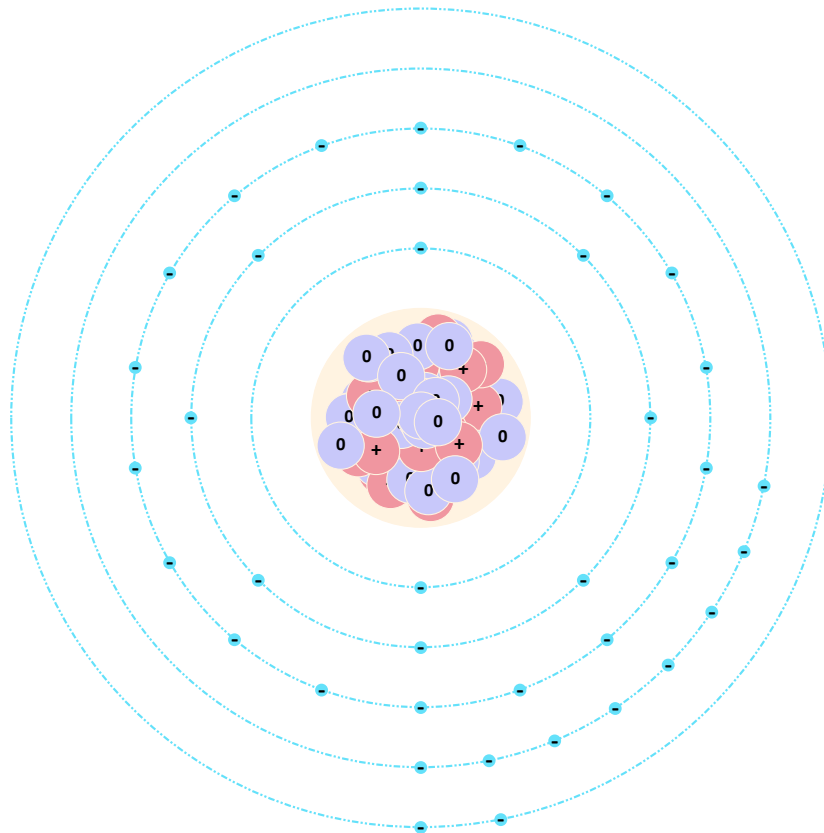
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Kr</b>	36	83.8	<b>Krypton</b> 18 Noble Gas 8A Helium Group	[Ar]3d10 4s2 4p6 Noble Gas	48



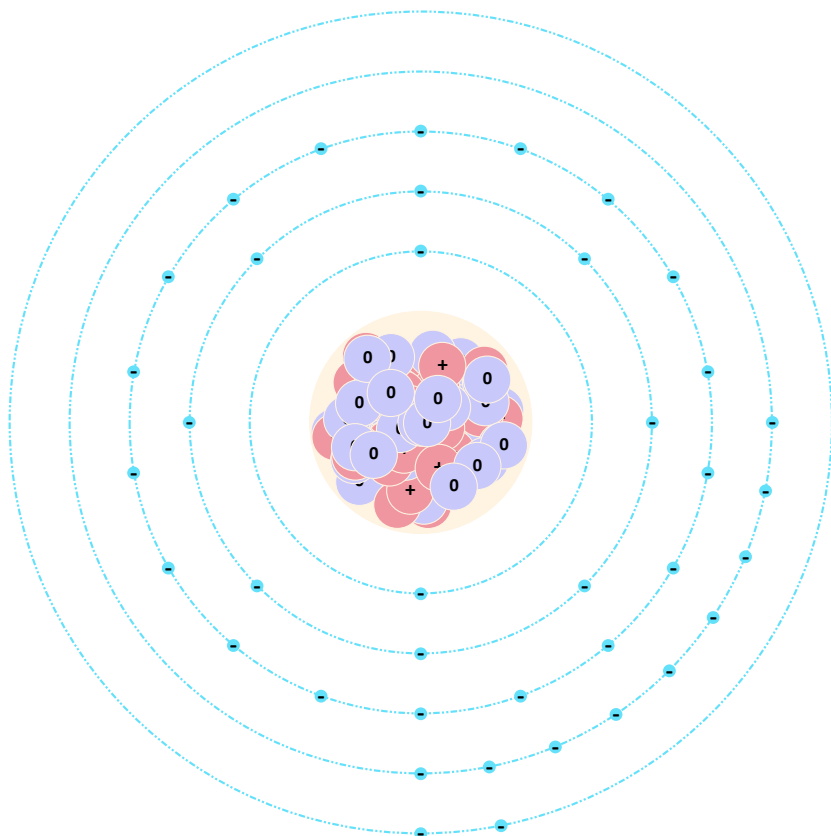
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Rb</b>	37	85.468	<b>Rubidium</b> 1 Alkali Metal +H 1A Lithium Group	[Kr]5s1 Alkali Metal Trace Circumstantial	48



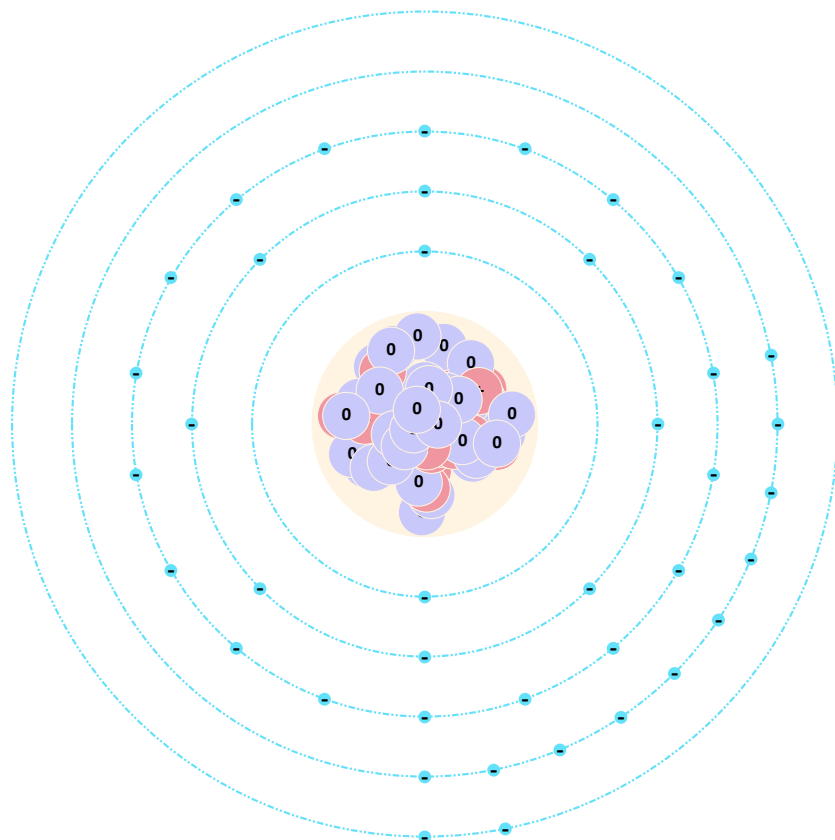
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Sr</b>	38	87.62	<b>Strontium</b> 2 Alkaline Earth Metal 2A Beryllium Group	[Kr]5s2 Alkaline Earth Metal Suggested Trace	50



Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Y</b>	39	88.906	<b>Yttrium</b> 3 Transition Metal 3 3B Scandium Group	[Kr]4d1 5s2 Transition Metal	50

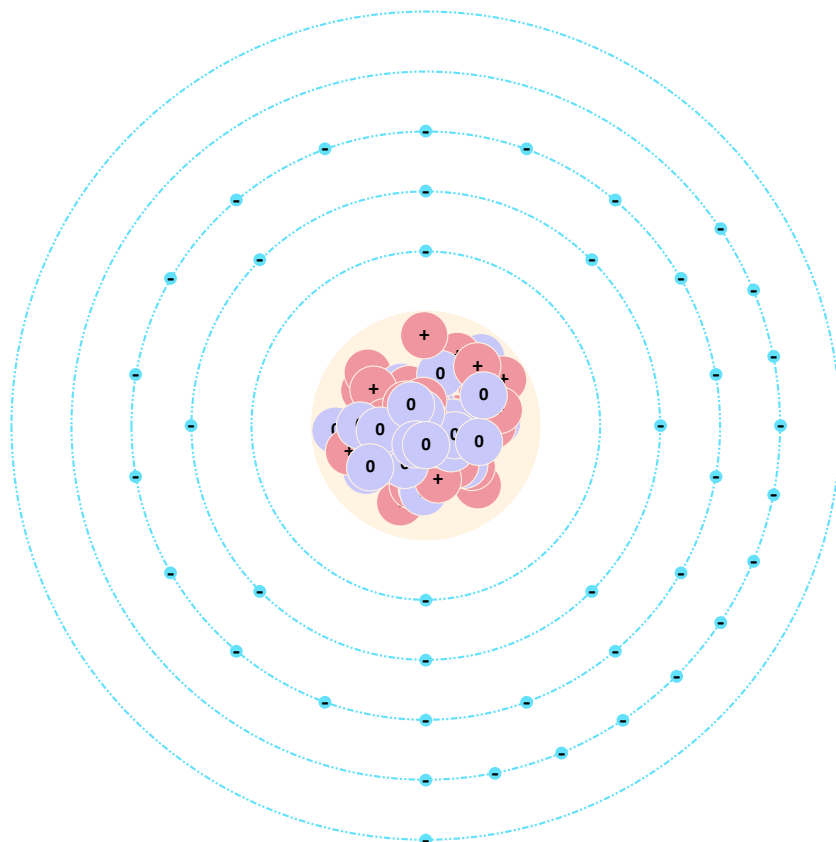


Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Zr</b>	40	91.224	<b>Zirconium</b> 4 Transition Metal 4 4B Titanium Group	[Kr]4d2 5s2 Transition Metal	51

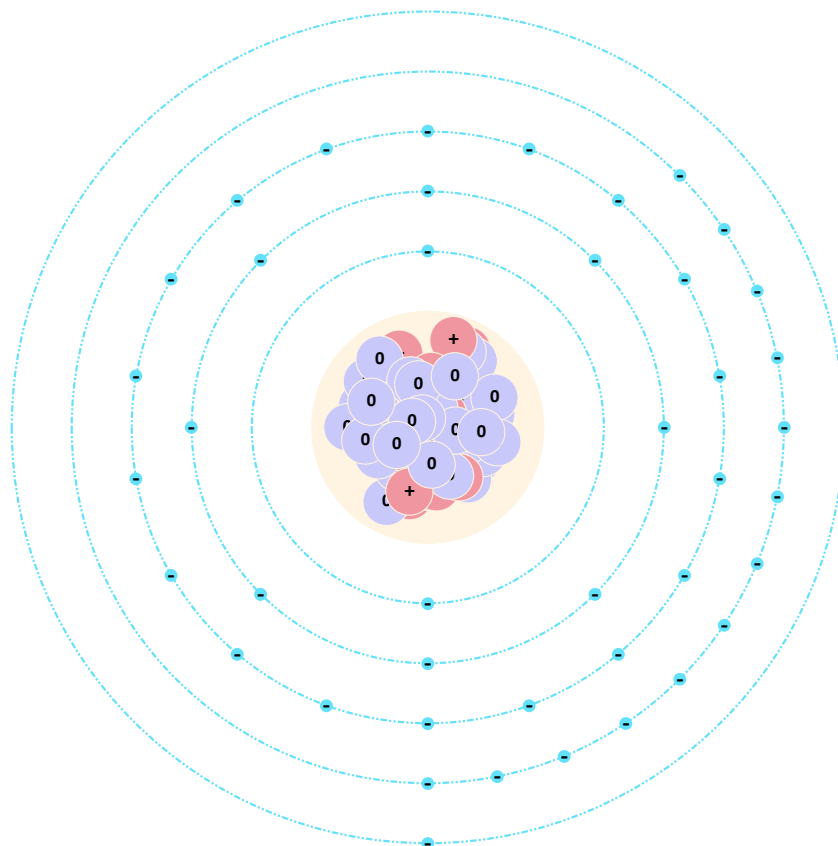




Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Nb</b>	41	92.906	<b>Noibium</b> 5 Transition Metal 5 5B Vanadium Group	[Kr]4d4 5s1 Transition Metal	52



Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Mo</b>	42	95.94	<b>Molybdenum</b> 6 Transition Metal 6 6B Chromium Group	[Kr]4d5 5s1 Transition Metal Essential Trace	54



Symbol Atomic # Atomic Mass Element / Group

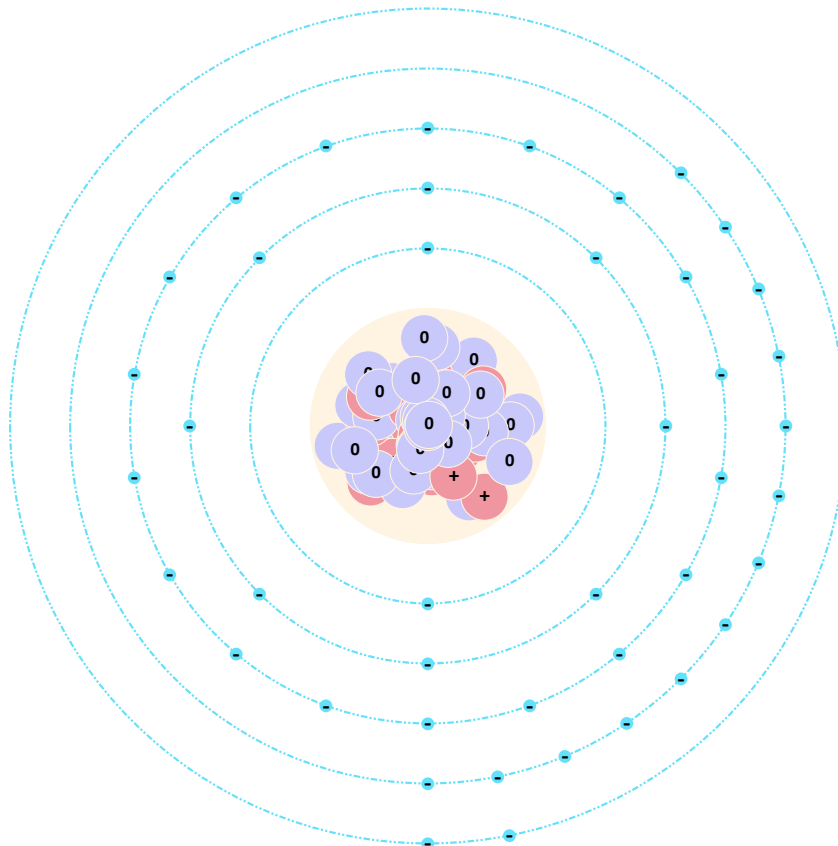
Config/Classification/Nutrient #Neutrons

**Tc**

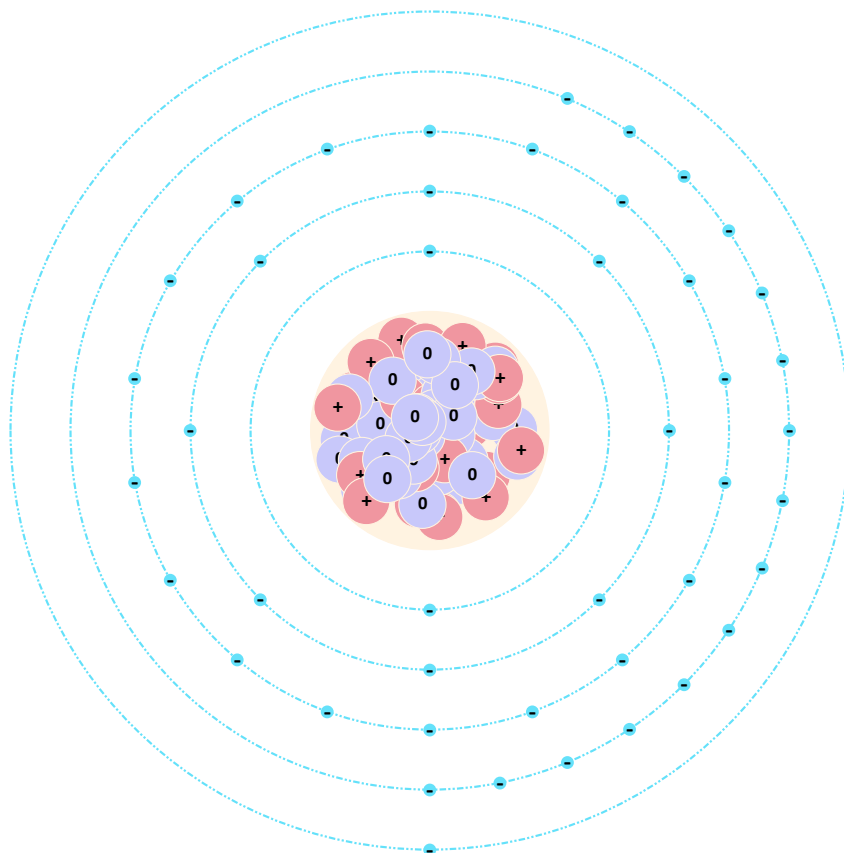
43 98  
*Radioactive*

**Technetium**  
7 Transition Metal 7  
7B Manganese Group

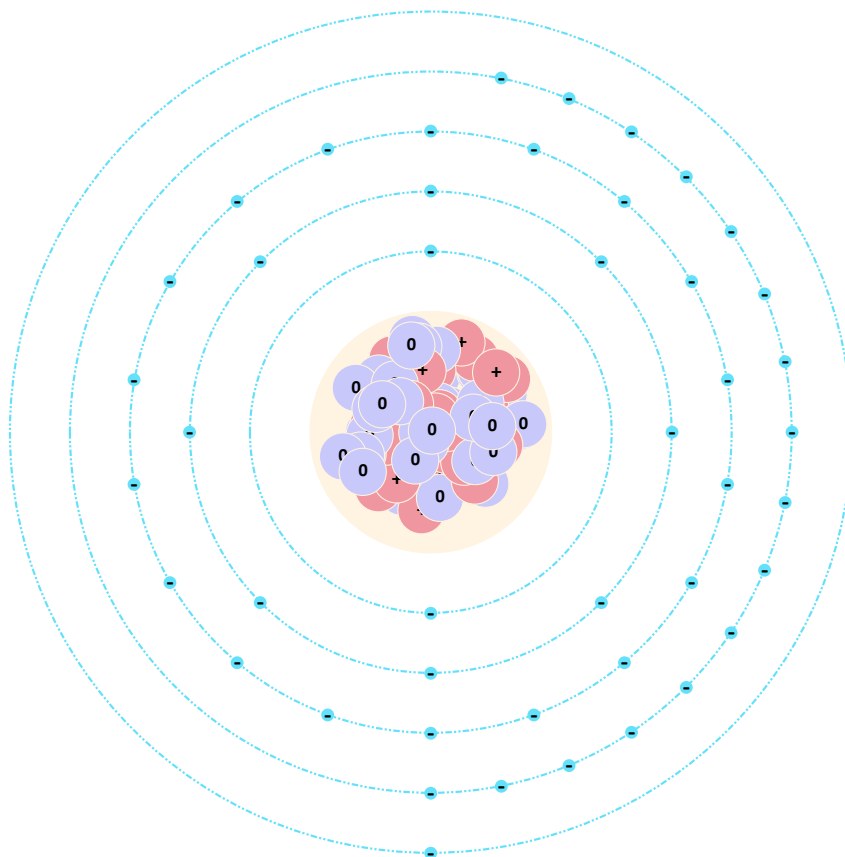
[Kr]4d5 5s2  
Synthesized, not stable 55



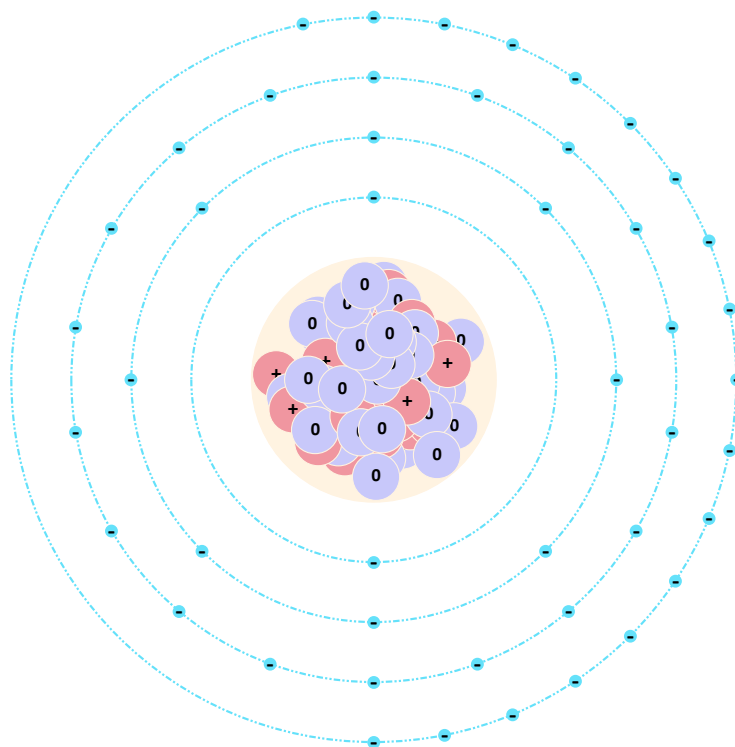
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Ru</b>	44	101.07	<b>Ruthenium</b> 8 Transition Metal 8 8B Iron Group	[Kr]4d7 5s1 Transition Metal	57



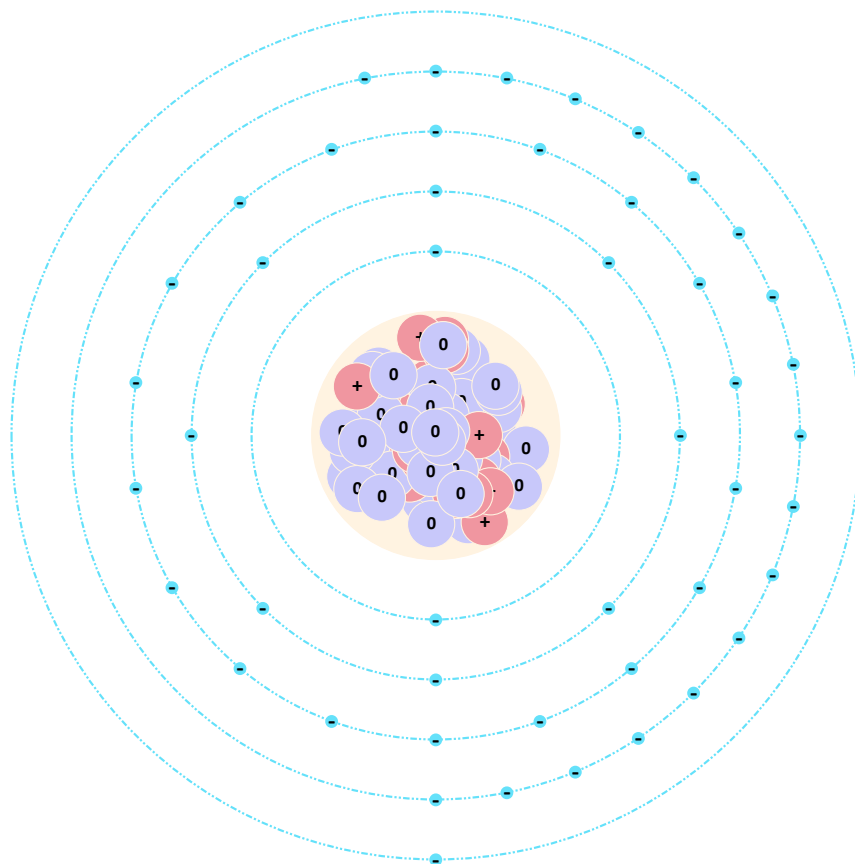
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Rh</b>	45	102.906	<b>Rhodium</b> 9 Transition Metal 8 (9) 8B Cobalt Group	[Kr]4d8 5s1 Transition Metal	58



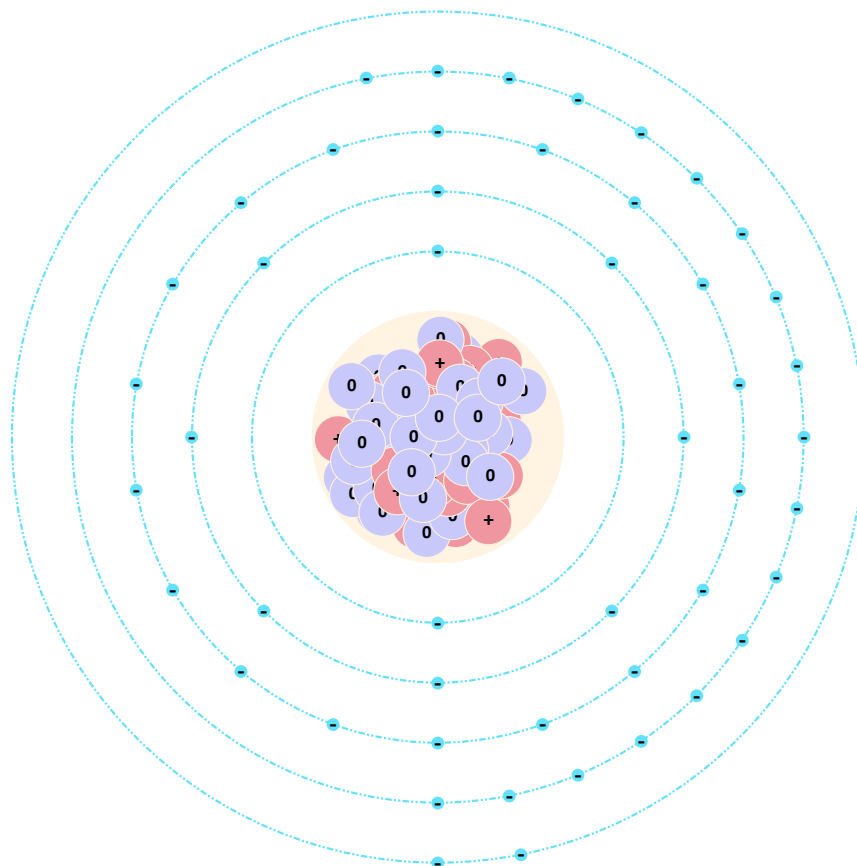
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Pd</b>	46	106.42	<b>Palladium</b> 10 Transition Metal 8 (10) 8B Nickel Group	[Kr]4d10 Transition Metal	60



Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Ag</b>	47	107.868	<b>Silver</b> 11 Transition Metal (coins) 1B Copper Group	[Kr]4d10 5s1 Transition Metal	61

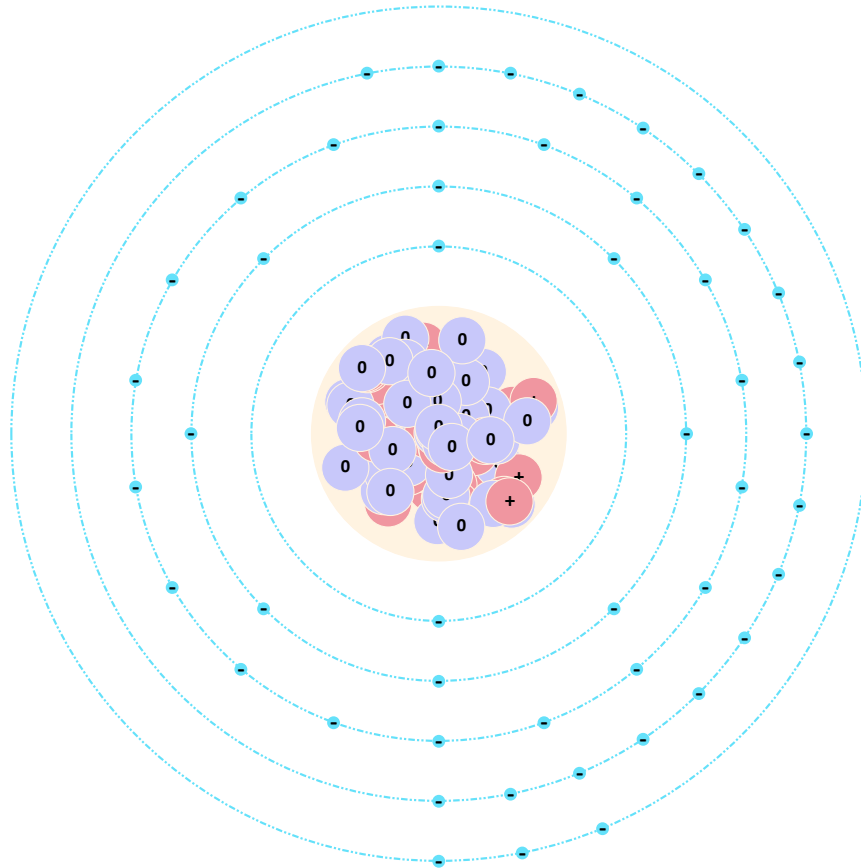


Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Cd</b>	48	112.411	<b>Cadmium</b> 12 Volatile Metal 2B Zinc Group	[Kr]4d10 5s2 Transition Metal Lower Organisms	64

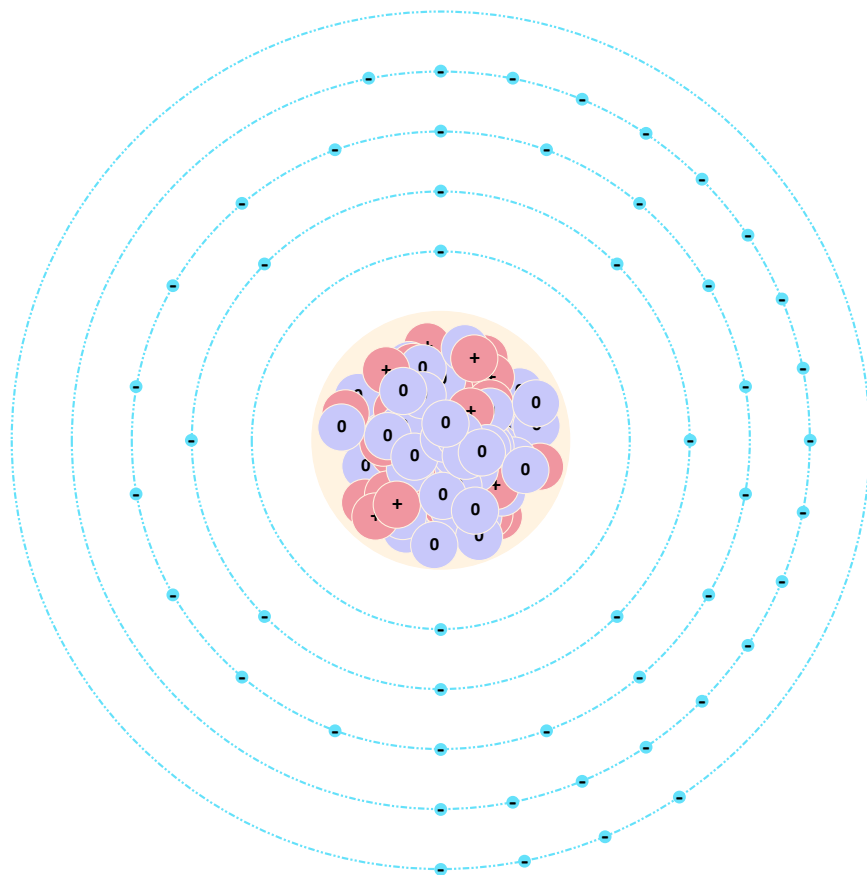




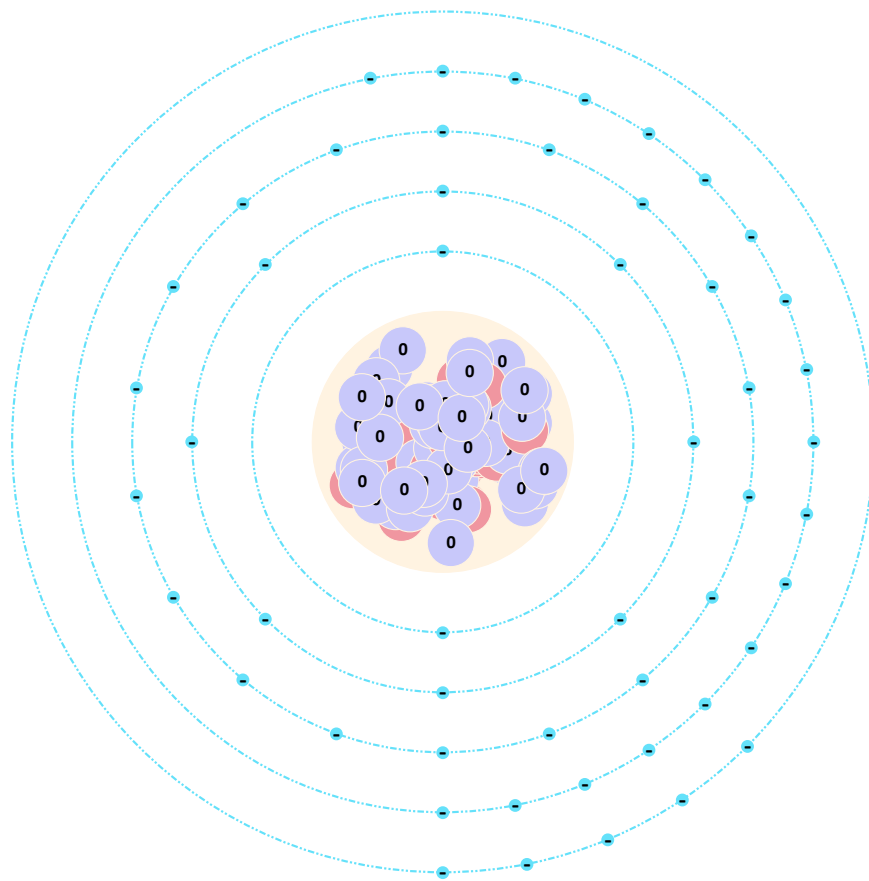
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In	49	114.818	<b>Indium</b> 13 Triel 3A Boron Group	[Kr]4d10 5s2 5p1 Basic Metal	66



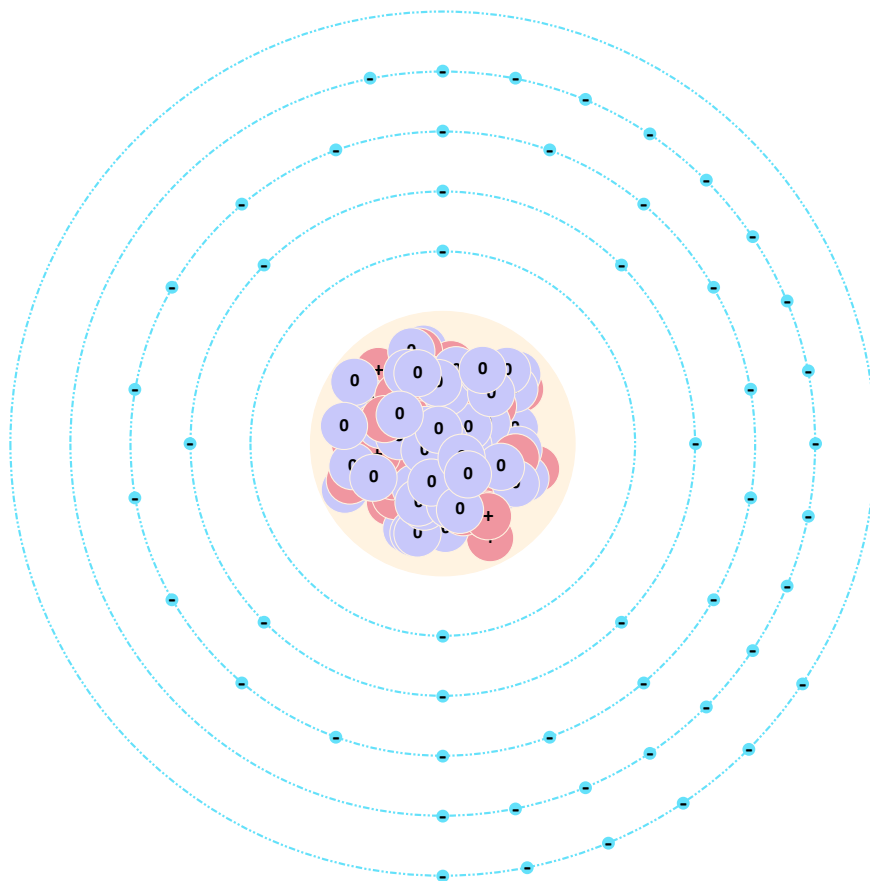
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Sn</b>	50	118.7	<b>Tin</b> 14 Tetrel 4A Carbon Group	[Kr]4d10 5s2 5p2 Basic Metal Trace Circumstantial	69



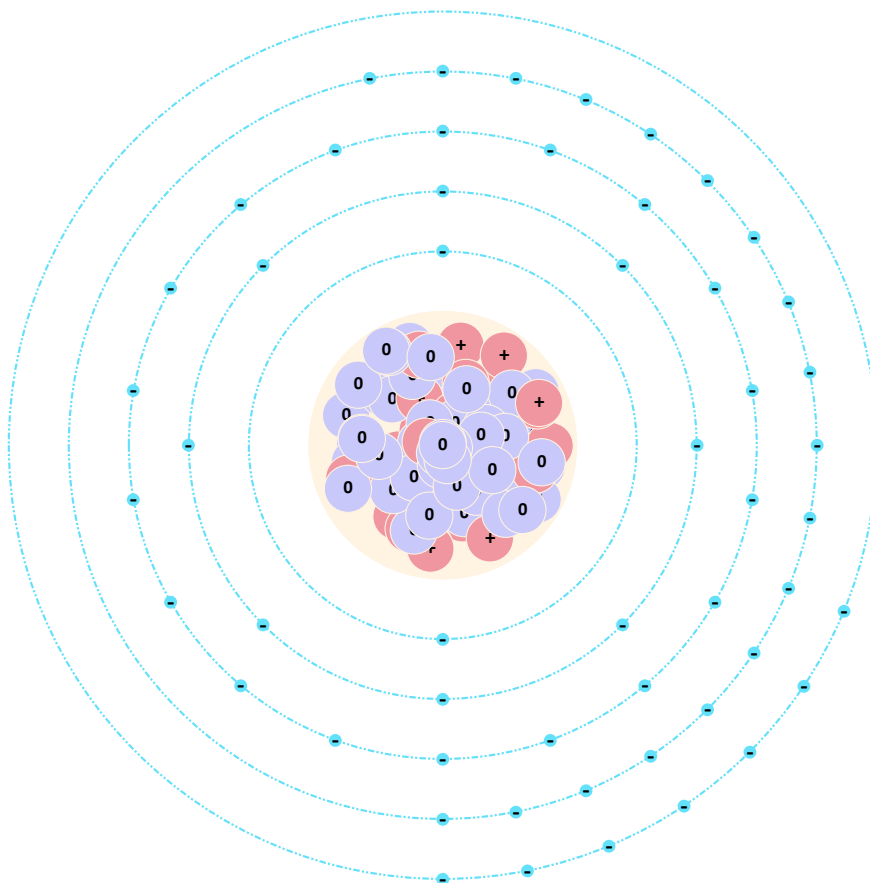
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Sb</b>	51	121.76	<b>Antimony</b> 15 Pnictogen 5A Nitrogen Group	[Kr]4d10 5s2 5p3 Metalloid	71



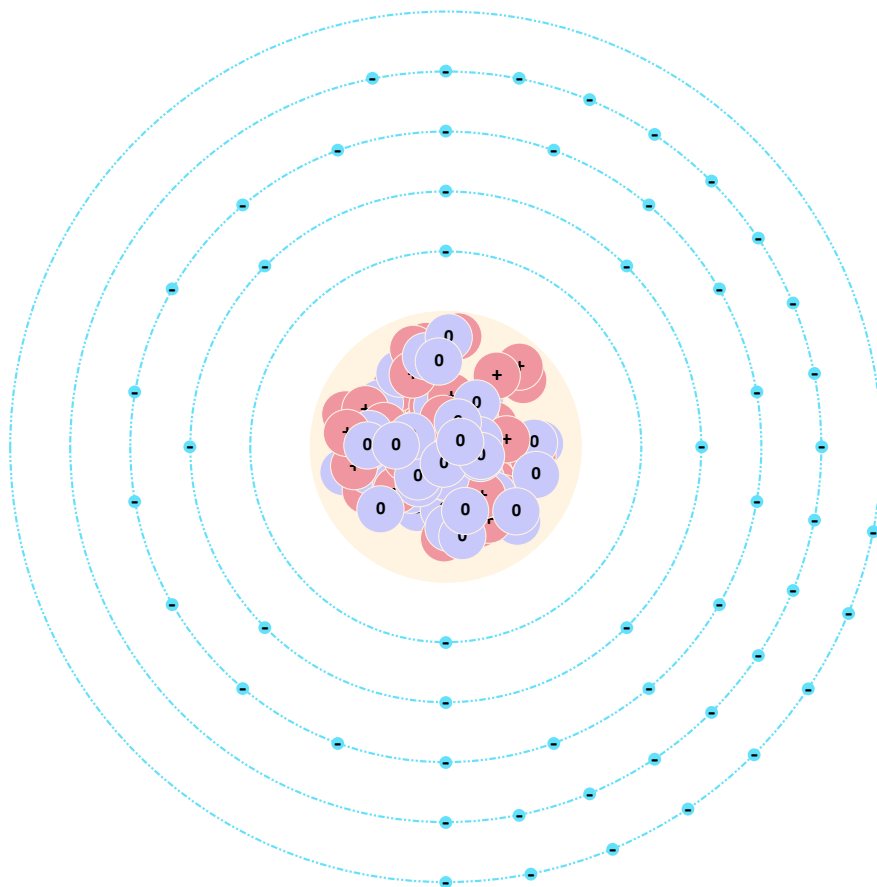
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
Te	52	127.6	<b>Tellurium</b> 16 Chalcogen 6A Oxygen Group	[Kr]4d10 5s2 5p4 Metalloid	76



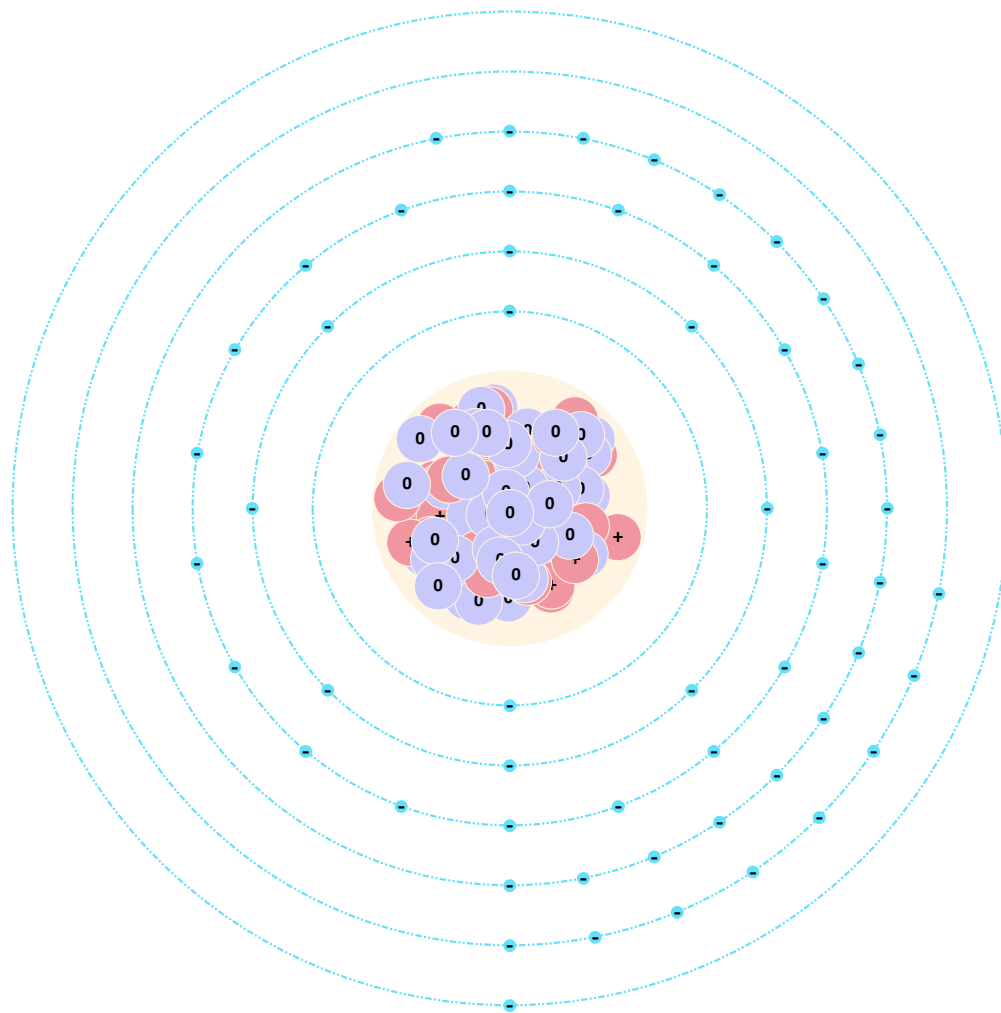
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
I	53	126.9	<b>Iodine</b> 17 Halogen 7A Flourine Group	[Kr]4d10 5s2 5p5 Halogen Essential Trace	74



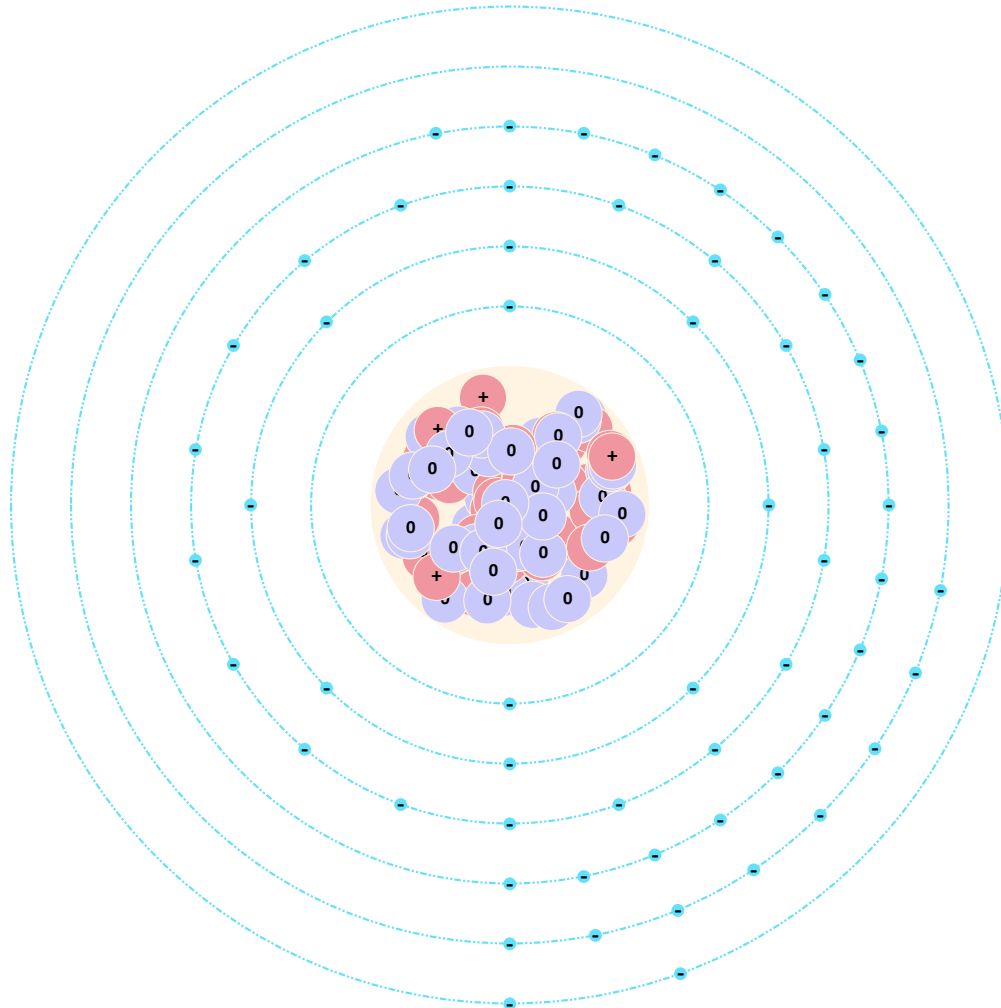
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Xe</b>	54	131.293	<b>Xenon</b> 18 Noble Gas 8A Helium Group	[Kr]4d10 5s2 5p6 Noble Gas	77



Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Cs</b>	55	132.906	<b>Cesium</b> 1 Alkali Metal +H 1A Lithium Group	[Xe]6s1 Alkali Metal	78

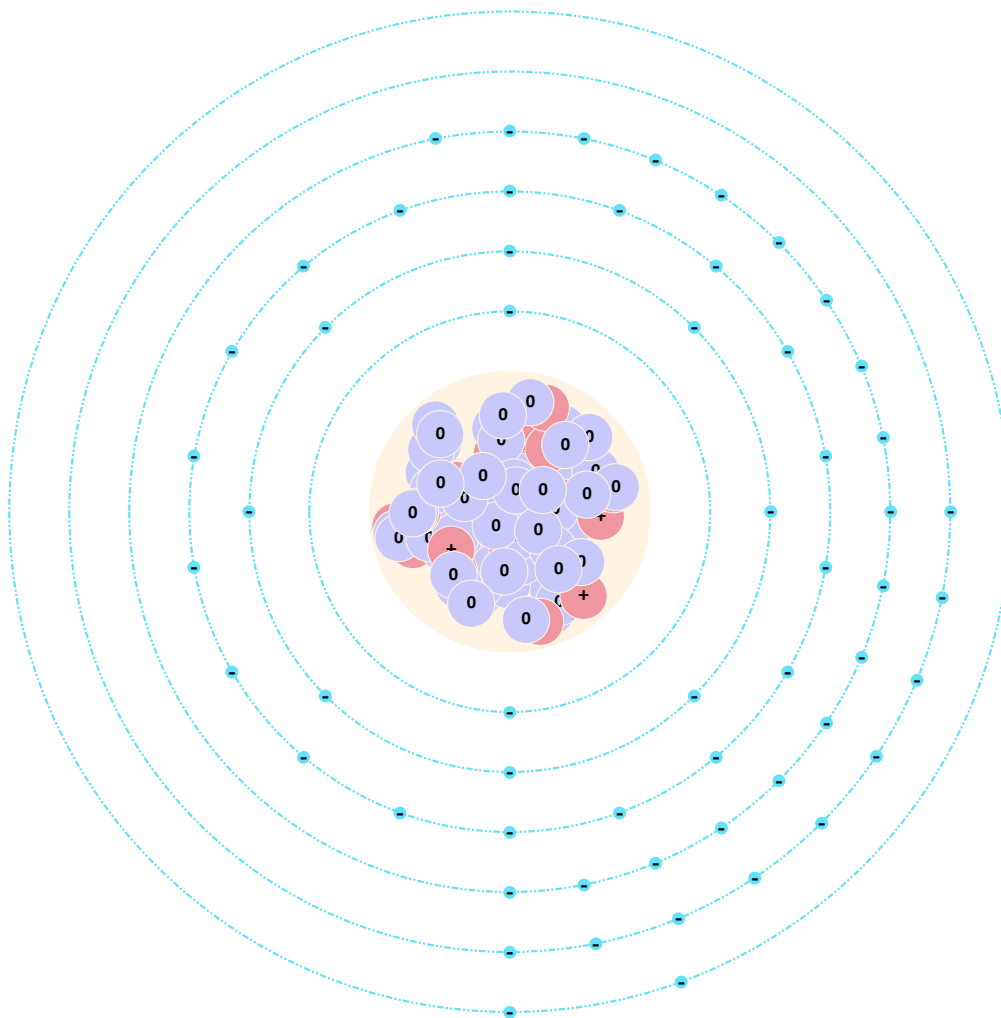


Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Ba</b>	56	137.3	<b>Barium</b> 2 Alkaline Earth Metal 2A Beryllium Group	[Xe]6s2 Alkaline Earth Metal	81

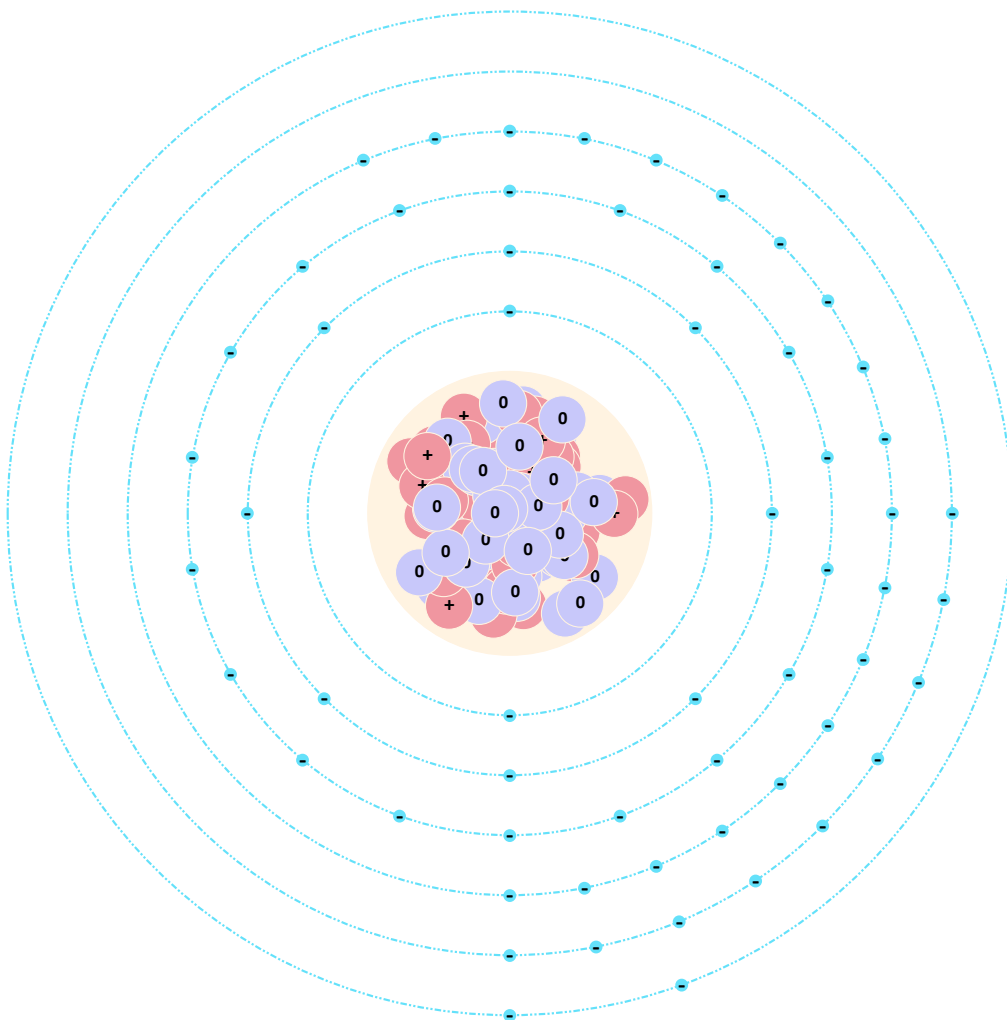




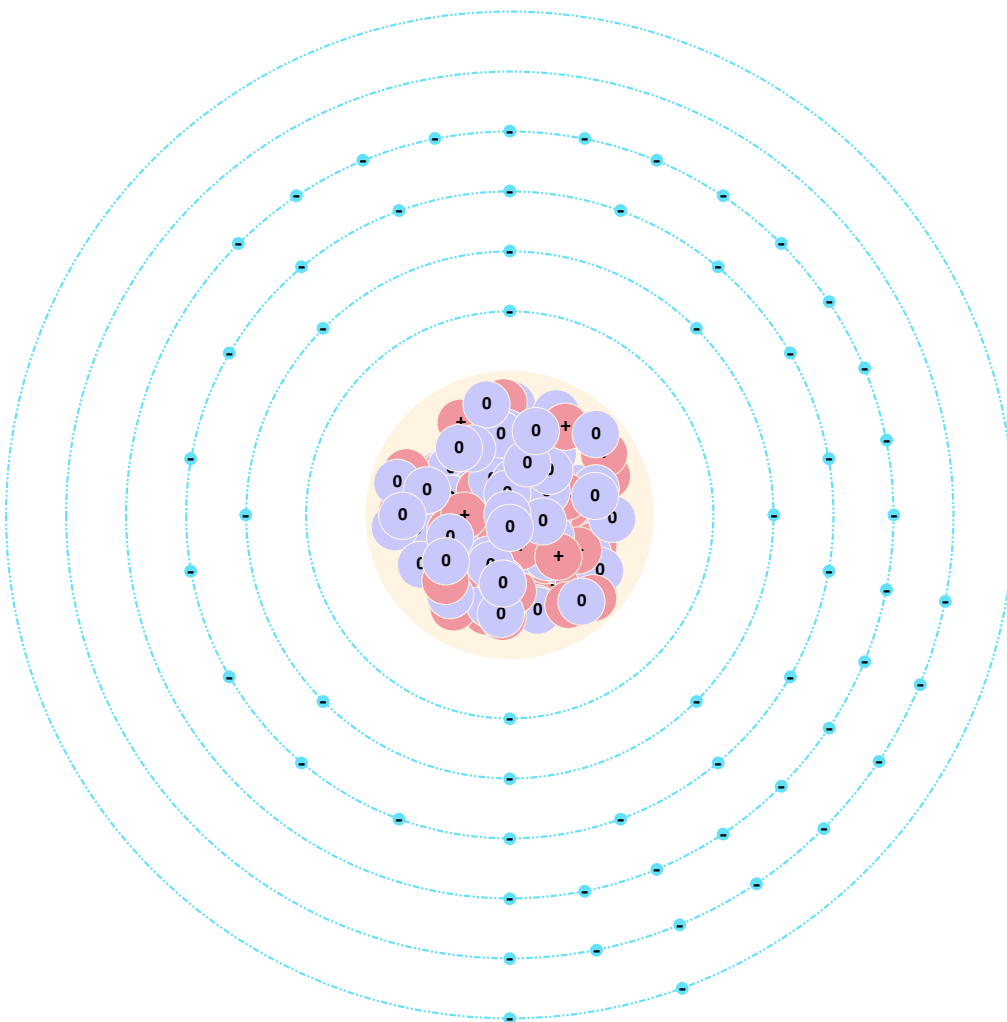
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<b>La</b>	57	138.906	<b>Lanthanum</b> Lanthanide La Lanthanum Group	[Xe]5d1 6s2 Lanthanide Lower Organisms	82



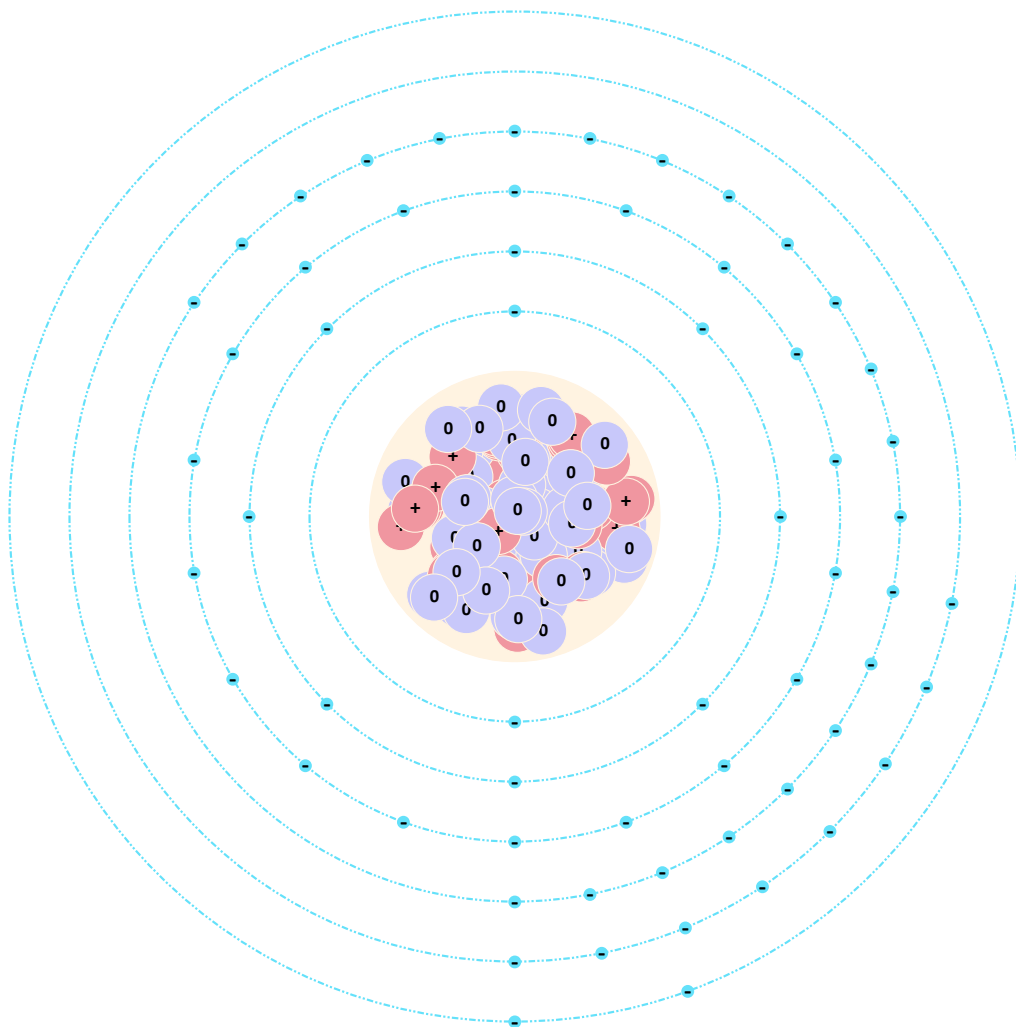
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Ce</b>	58	140.116	<b>Cerium</b> Lanthanide La Lanthanum Group	[Xe]4f1 5d1 6s2 Lanthanide Lower Organisms	82



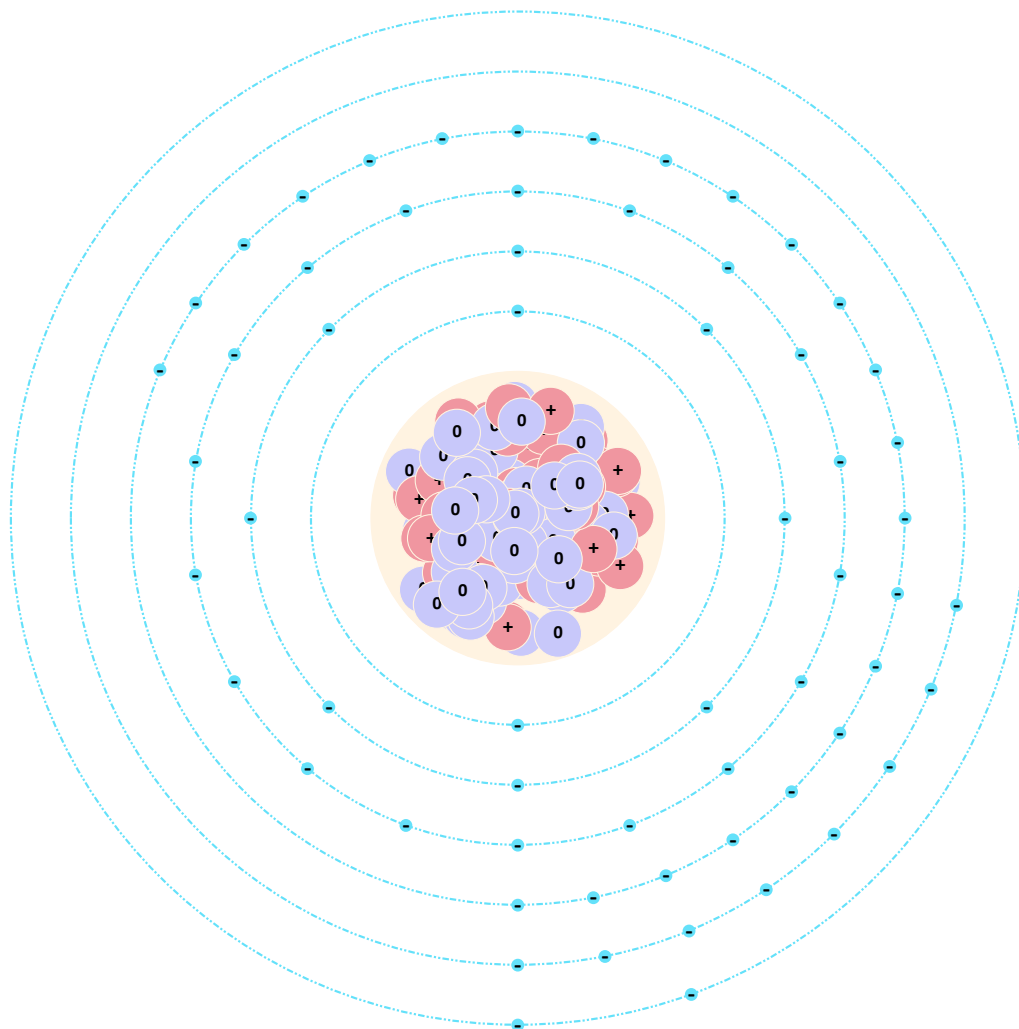
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<b>Pr</b>	59	140.908	<b>Praseodymium</b> Lanthanide La Lanthanum Group	[Xe]4f <sup>3</sup> 6s <sup>2</sup> Lanthanide Lower Organisms	82



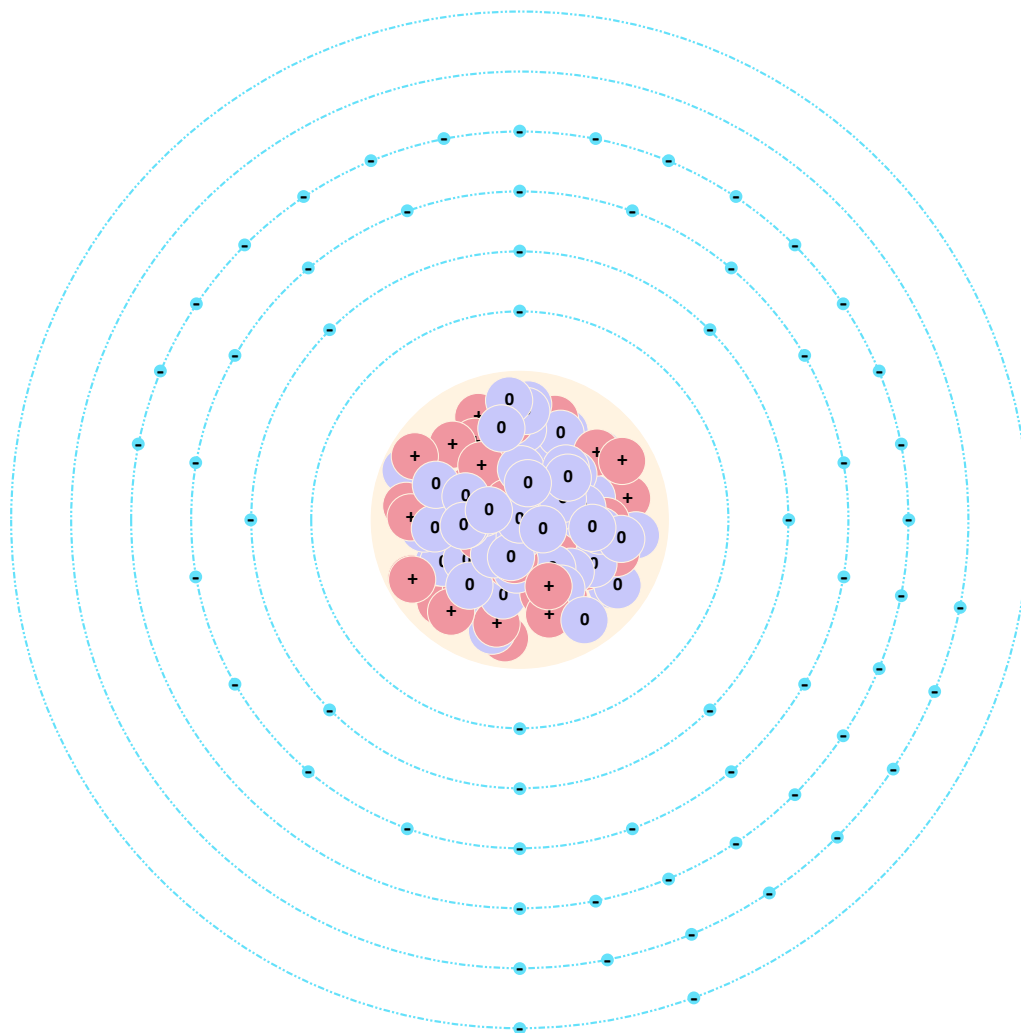
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<b>Nd</b>	60	144.24	<b>Neodymium</b> Lanthanide La Lanthanum Group	[Xe]4f4 6s2 Lanthanide Lower Organisms	84



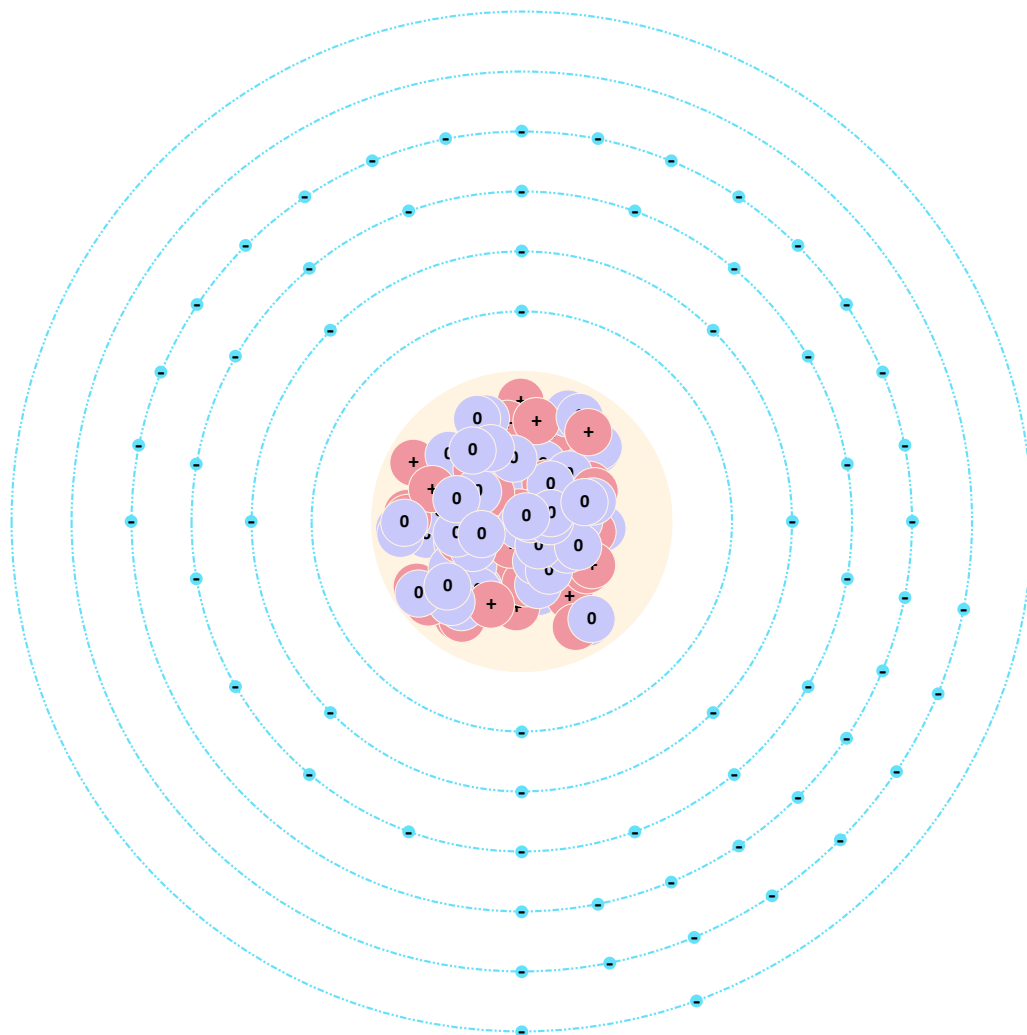
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Pm</b>	61	145	<b>Promethium</b> Lanthanide La Lanthanum Group	[Xe]4f5 6s2 Synthesized, not stable	84



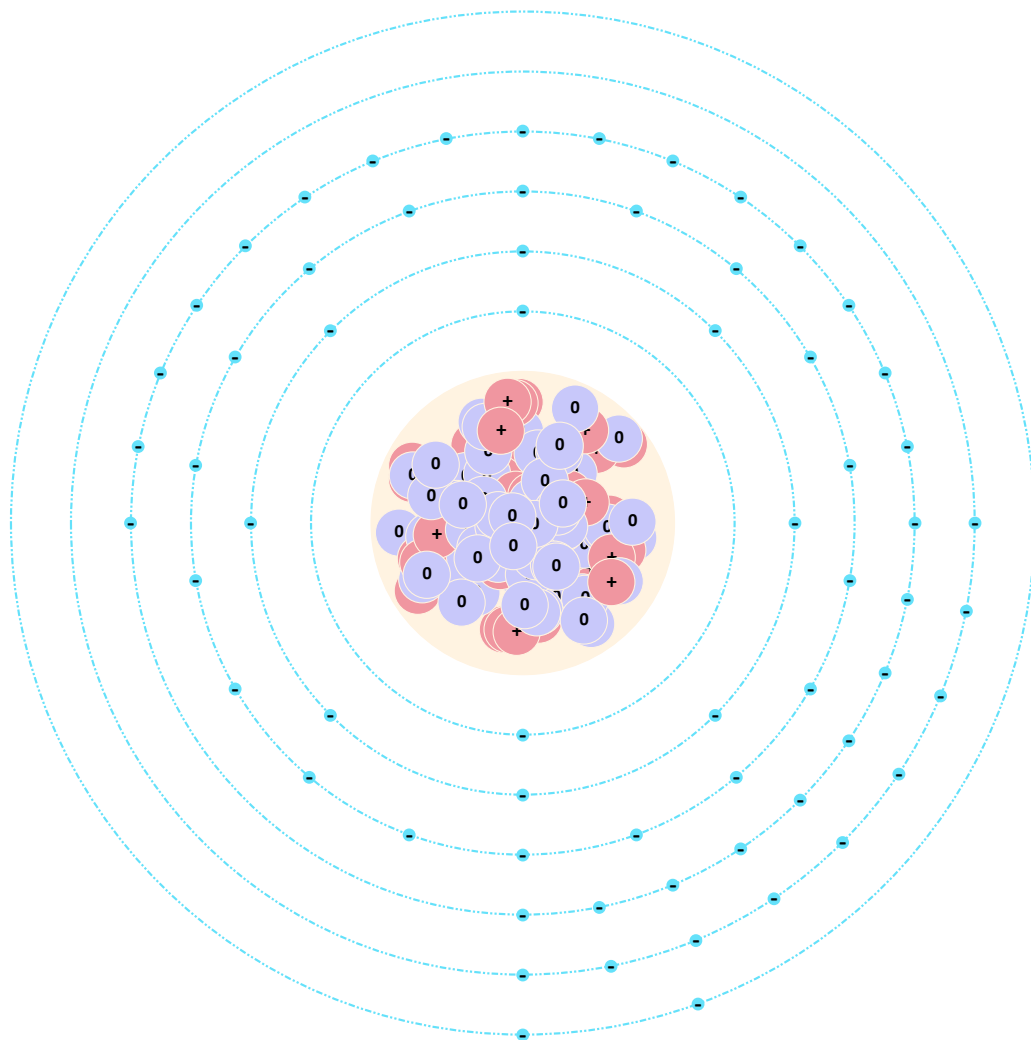
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Sm</b>	62	150.36	<b>Samarium</b> Lanthanide La Lanthanum Group	[Xe]4f6 6s2 Lanthanide Lower Organisms	88



Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Eu</b>	63	151.964	<b>Europium</b> Lanthanide La Lanthanum Group	[Xe]4f7 6s2 Lanthanide	89

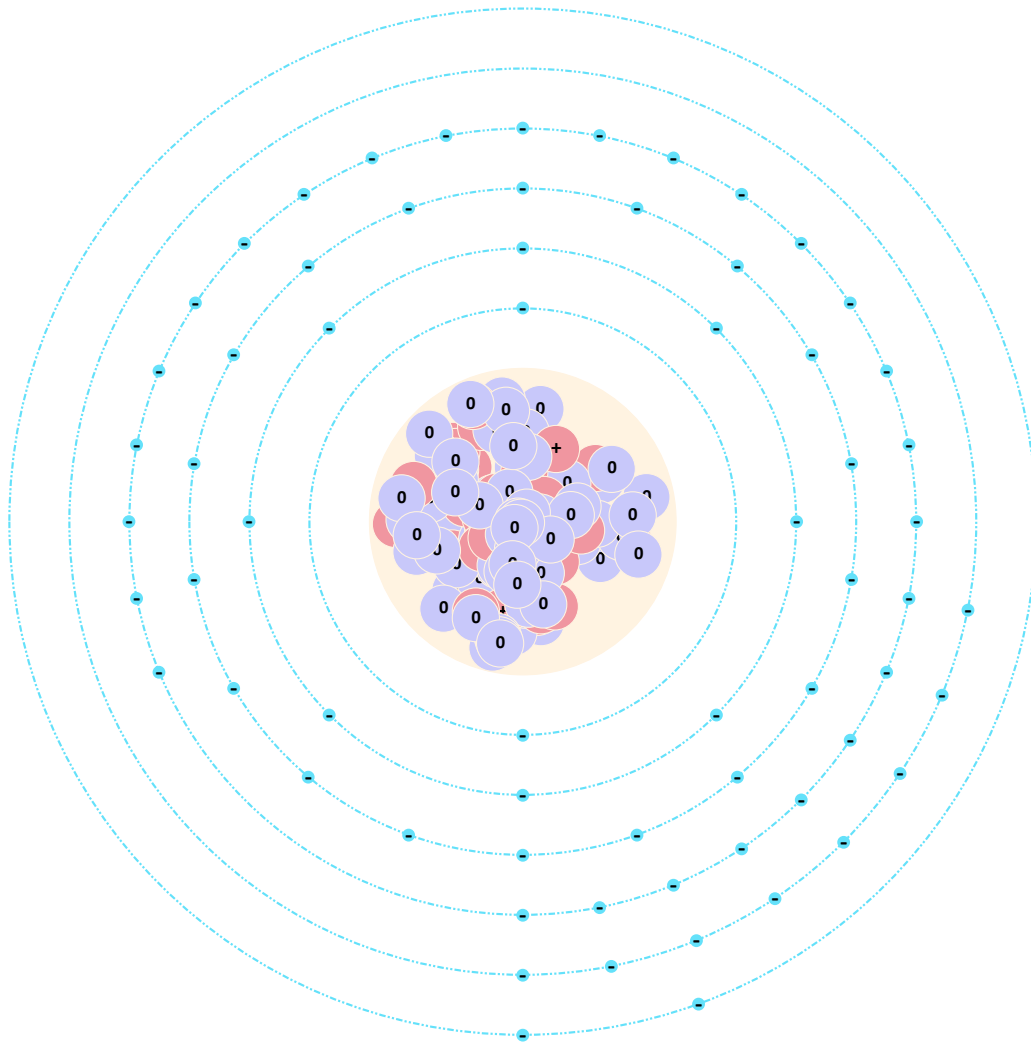


Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Gd</b>	64	157.25	<b>Gadolinium</b> Lanthanide La Lanthanum Group	[Xe]4f7 5d1 6s2 Lanthanide	93

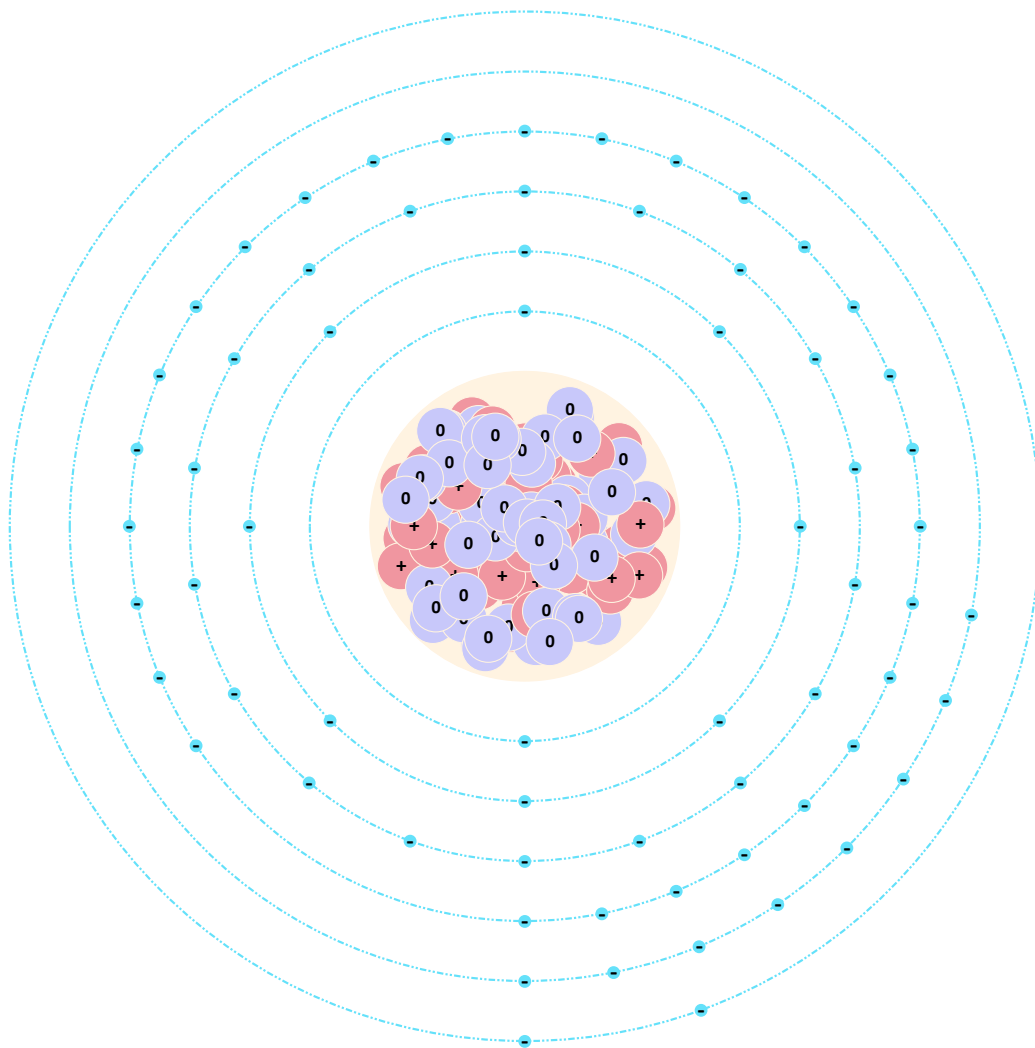




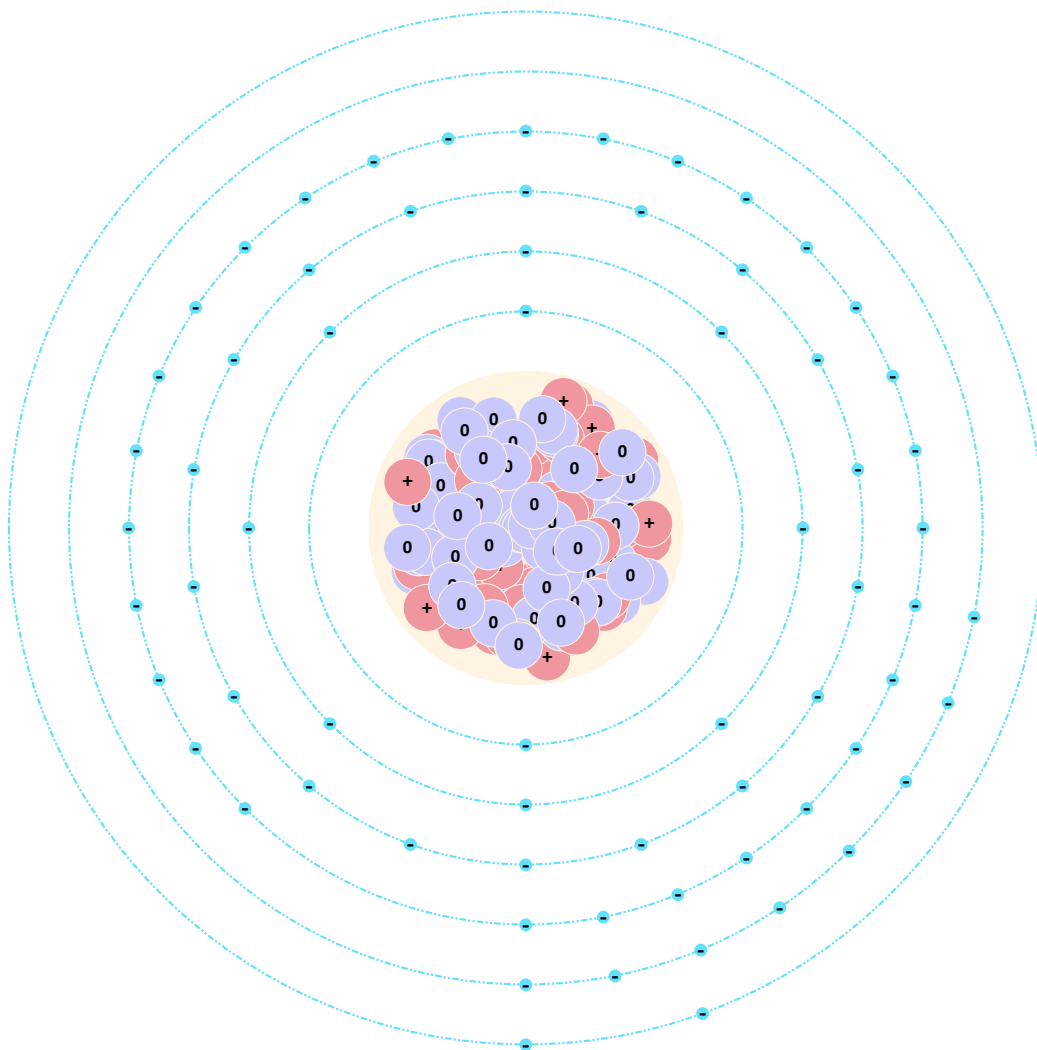
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Tb</b>	65	158.925	<b>Terbium</b> Lanthanide La Lanthanum Group	[Xe]4f9 6s2 Lanthanide	94



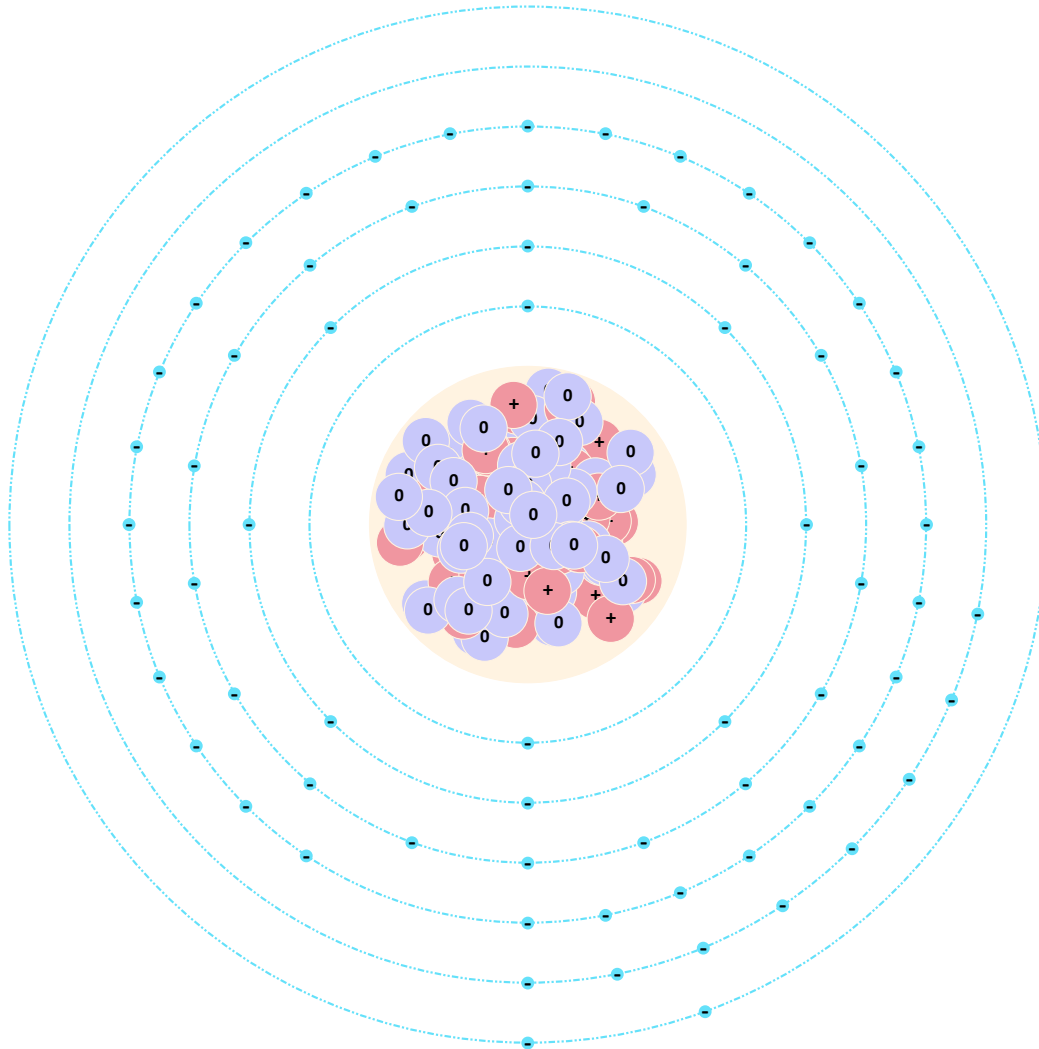
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Dy</b>	66	162.5	<b>Dysprosium</b> Lanthanide La Lanthanum Group	[Xe]4f10 6s2 Lanthanide	96



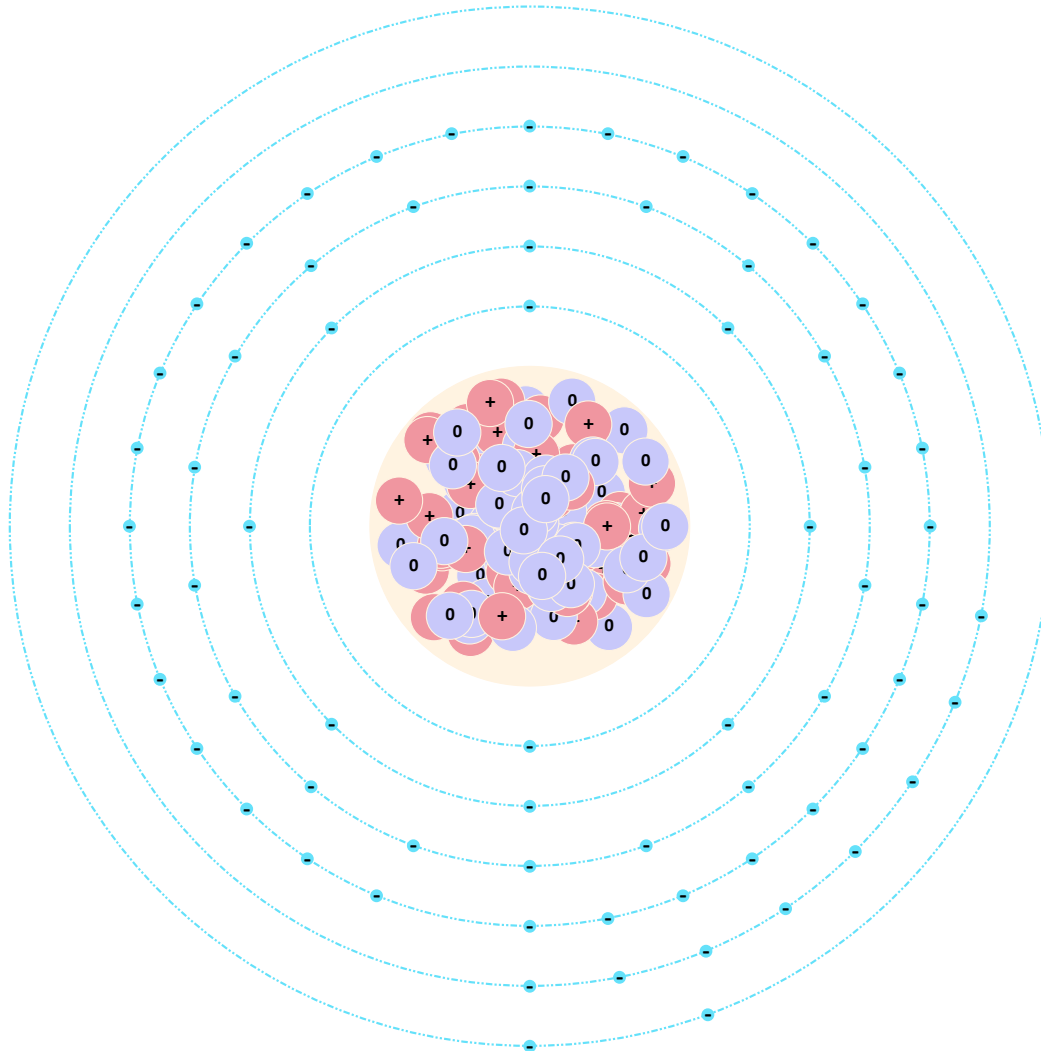
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Ho</b>	67	164.93	<b>Holmium</b> Lanthanide La Lanthanum Group	[Xe]4f11 6s2 Lanthanide	98



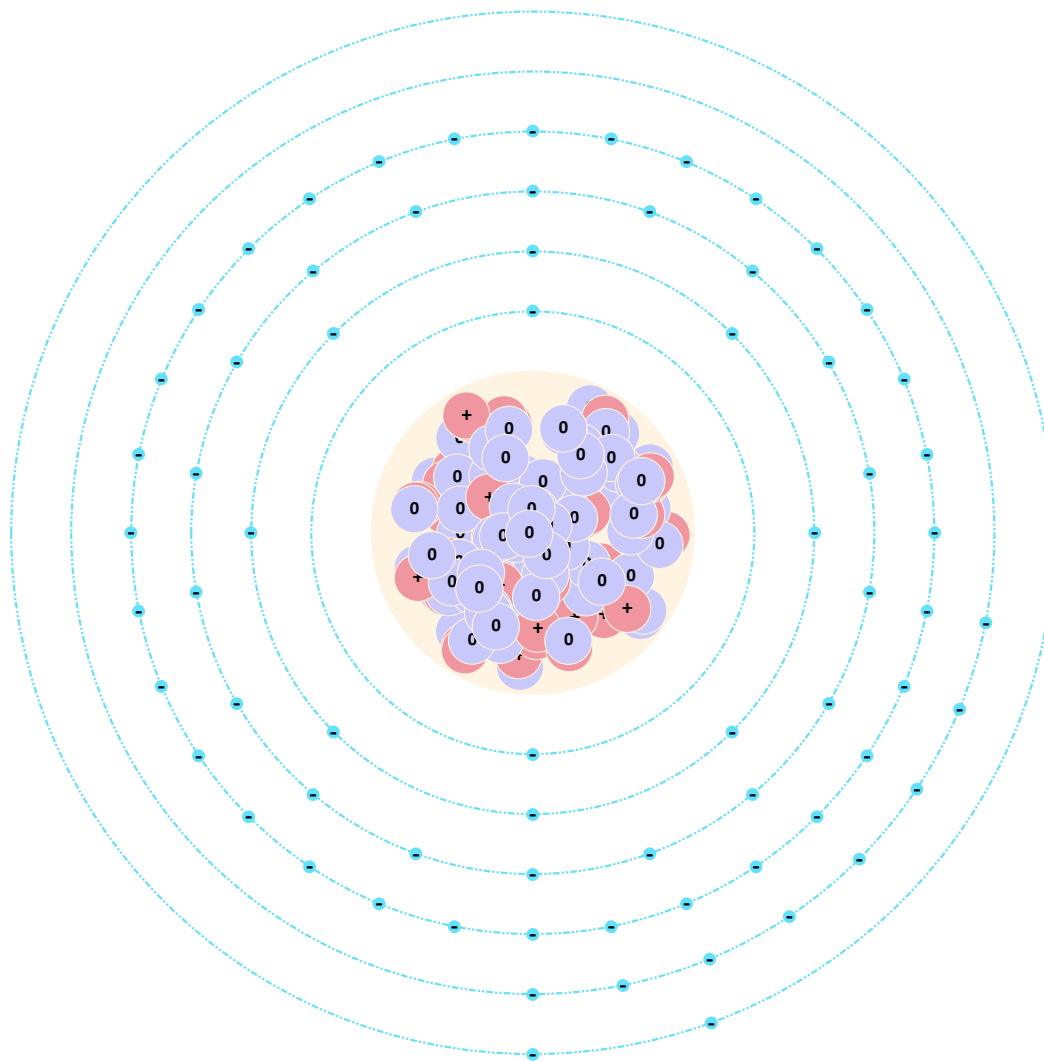
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<b>Er</b>	68	167.259	<b>Erbium</b> Lanthanide La Lanthanum Group	[Xe]4f12 6s2 Lanthanide	99



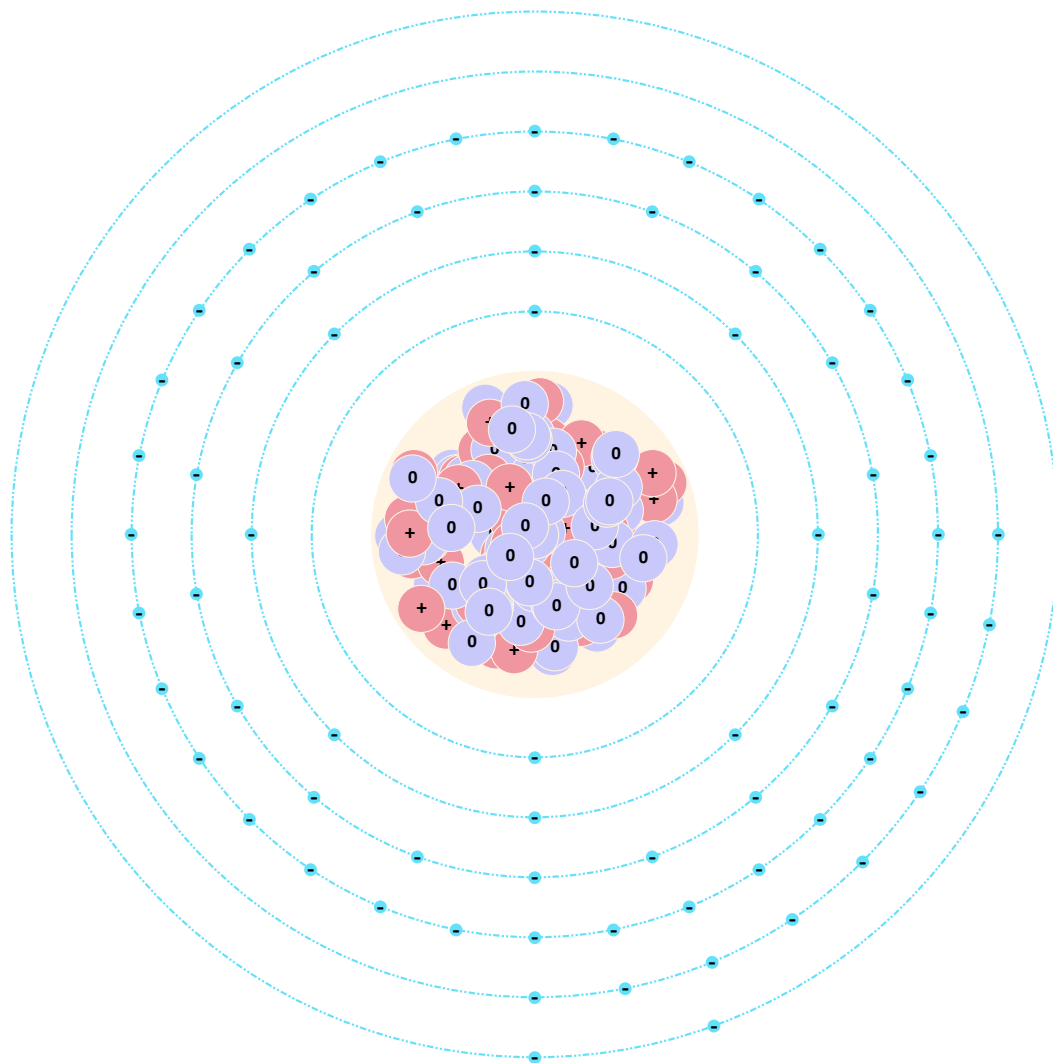
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Tm</b>	69	168.934	<b>Thulim</b> Lanthanide La Lanthanum Group	[Xe]4f <sup>13</sup> 6s <sup>2</sup> Lanthanide	100



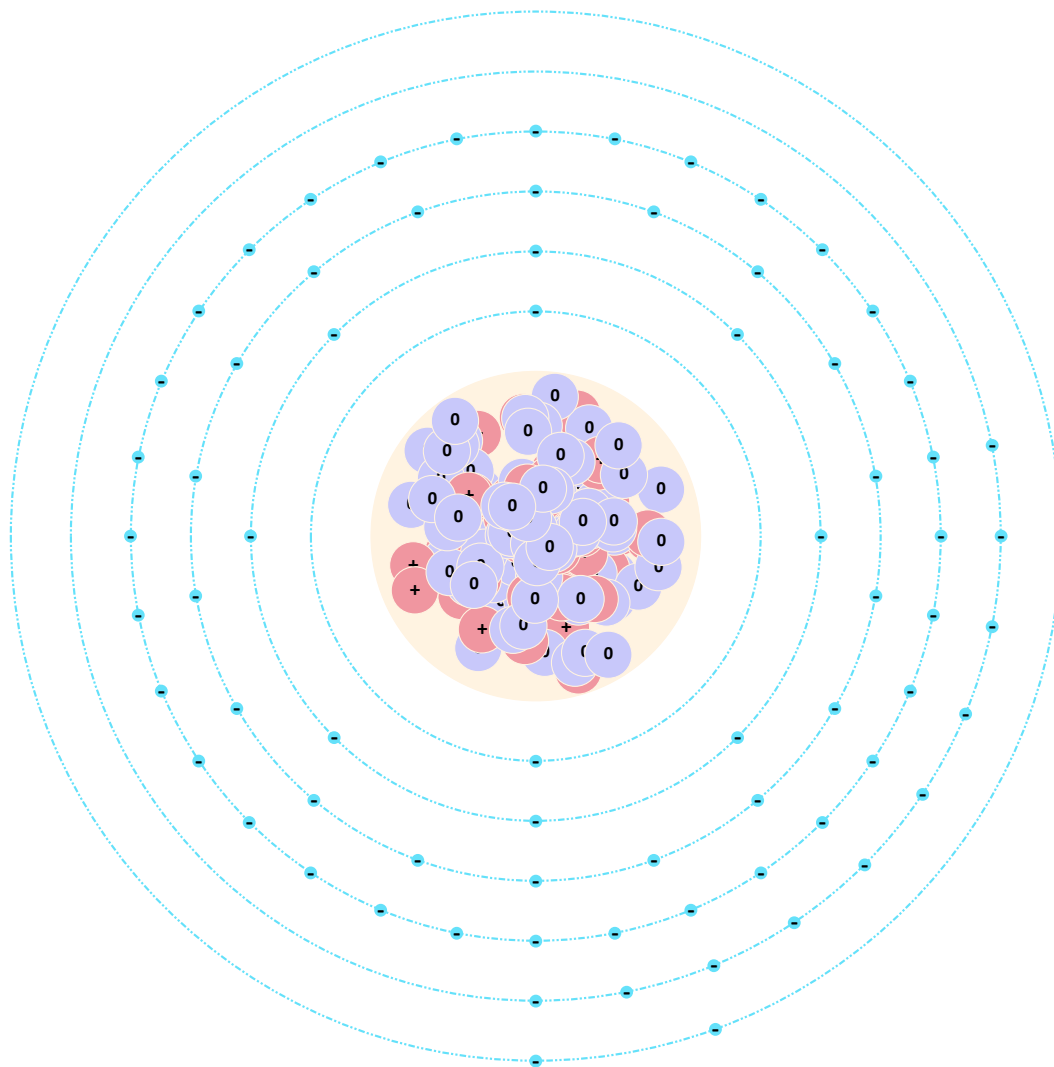
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Yb</b>	70	173.04	<b>Ytterbium</b> Lanthanide La Lanthanum Group	[Xe]4f14 6s2 Lanthanide	103



Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Lu</b>	71	174.97	<b>Lutetium</b> 3 Transition Metal 3 3B Scandium Group	[Xe]4f14 5d1 6s2 Transition Metal	104

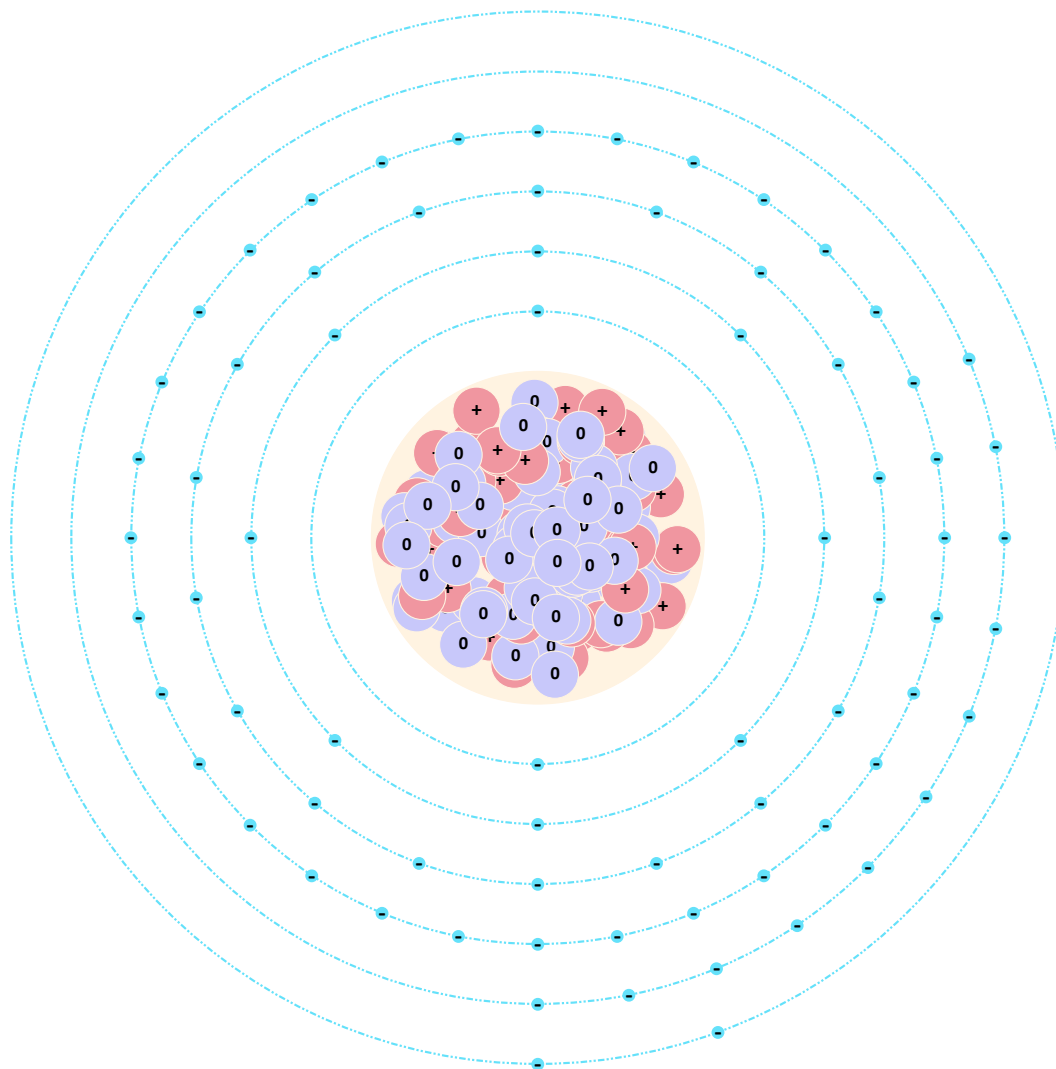


Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Hf</b>	72	178.49	<b>Hafnium</b> 4 Transition Metal 4 4B Titanium Group	[Xe]4f14 5d2 6s2 Transition Metal	106

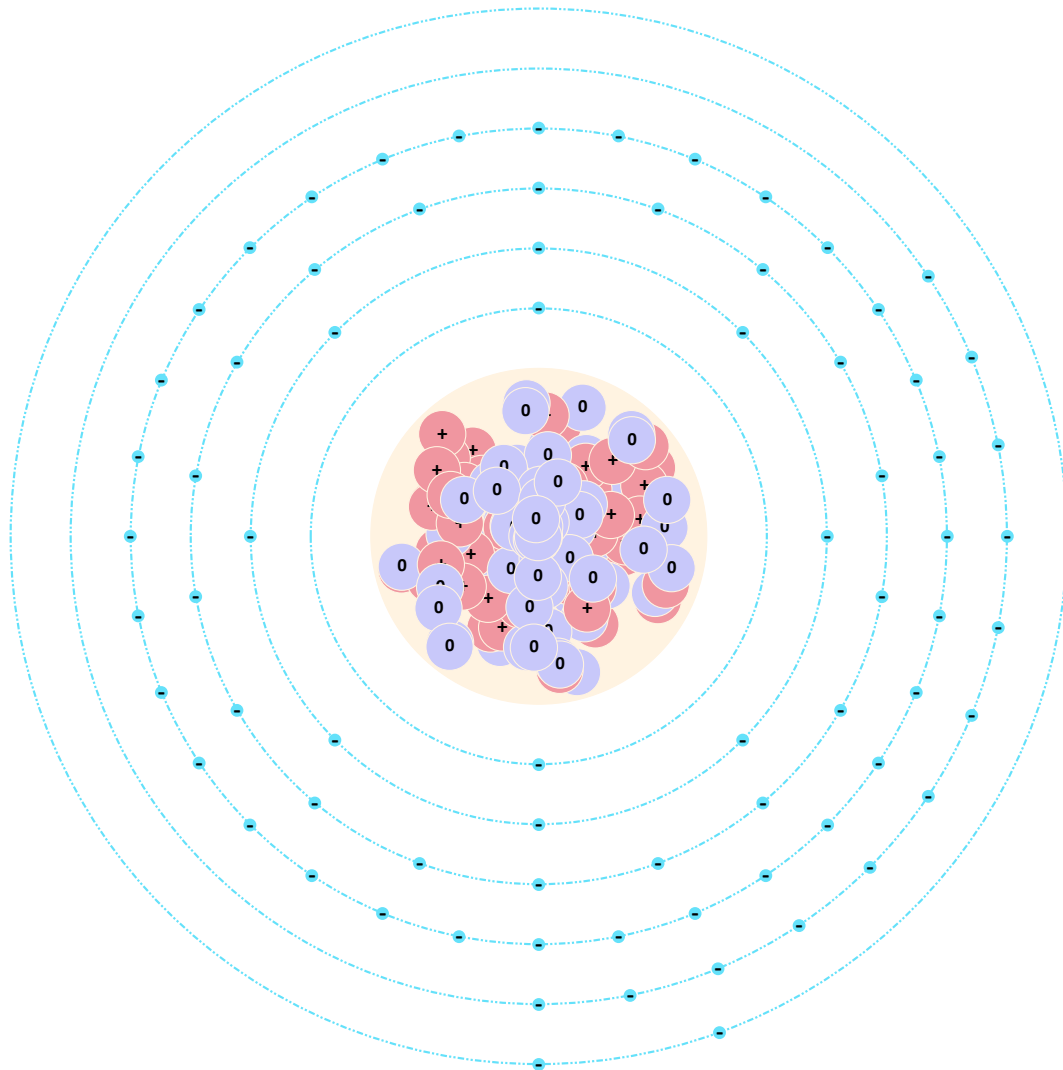




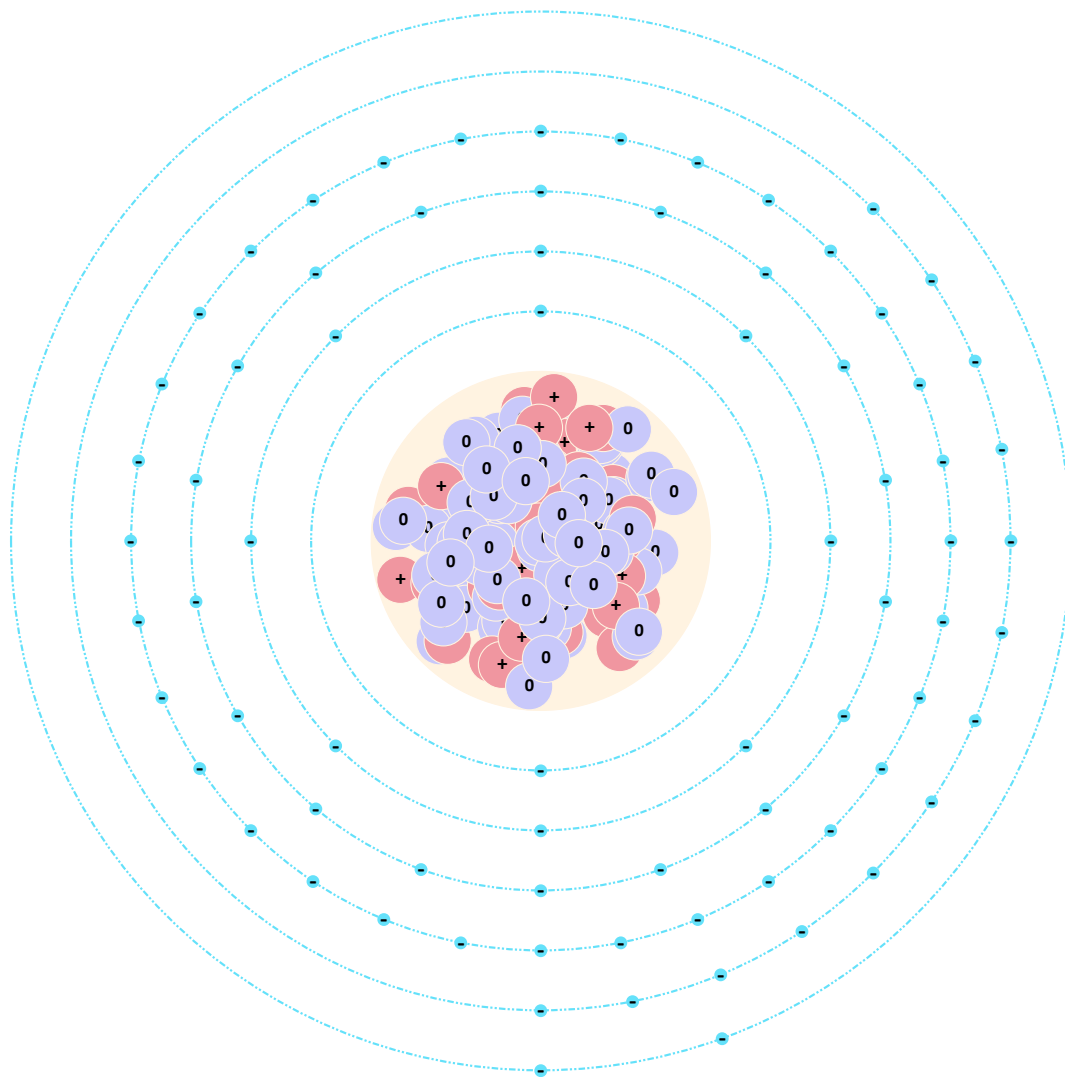
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Ta	73	180.948	<b>Tantalum</b> 5 Transition Metal 5 5B Vanadium Group	[Xe]4f14 5d3 6s2 Transition Metal	108



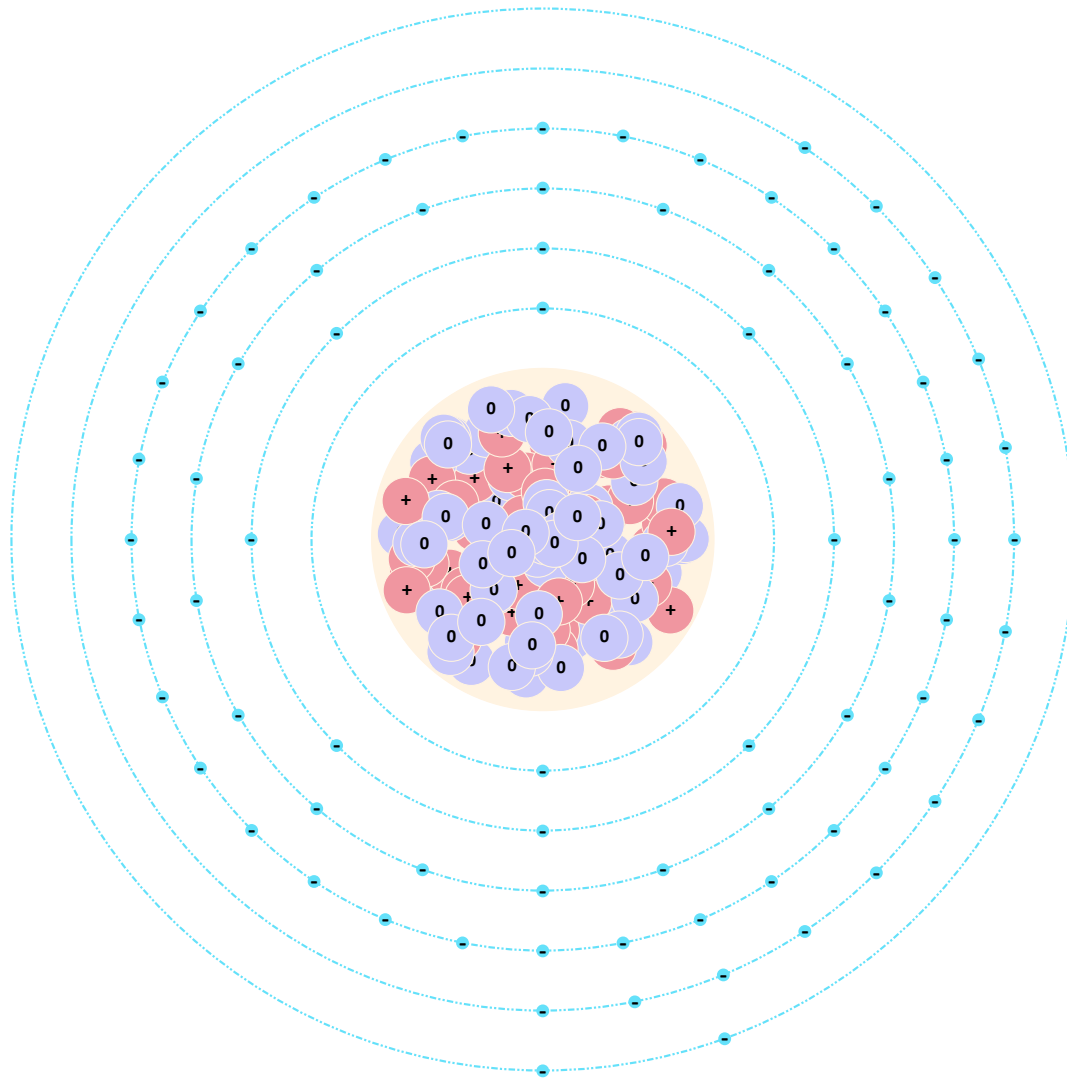
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<b>W</b>	74	183.84	<b>Tungsten</b>	[Xe]4f14 5d4 6s2	
			6 Transition Metal 6	Transition Metal	110
			6B Chromium Group	Lower Organisms	



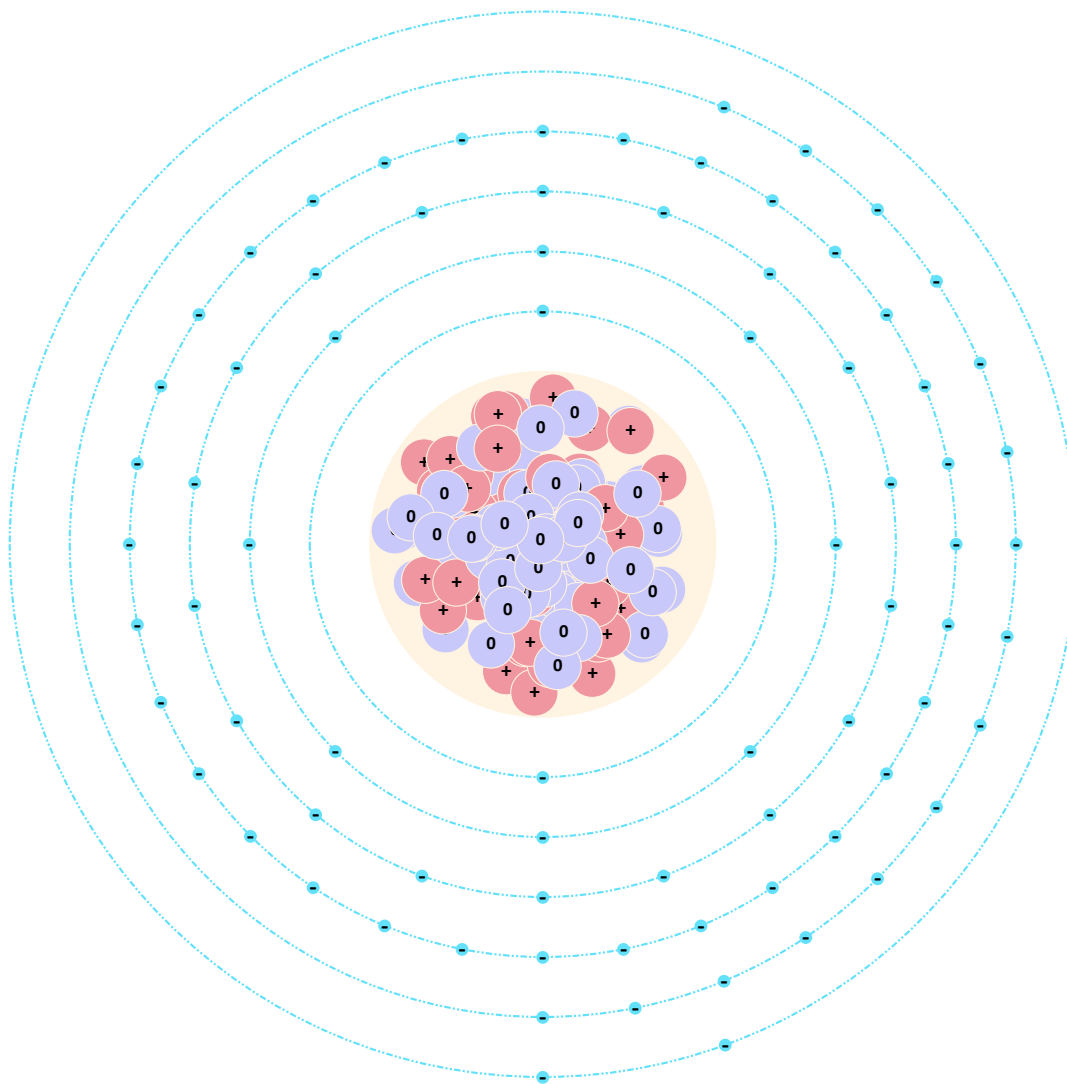
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<b>Re</b>	75	186.207	<b>Rhenium</b> 7 Transition Metal 7 7B Manganese Group	[Xe]4f14 5d5 6s2 Transition Metal	111



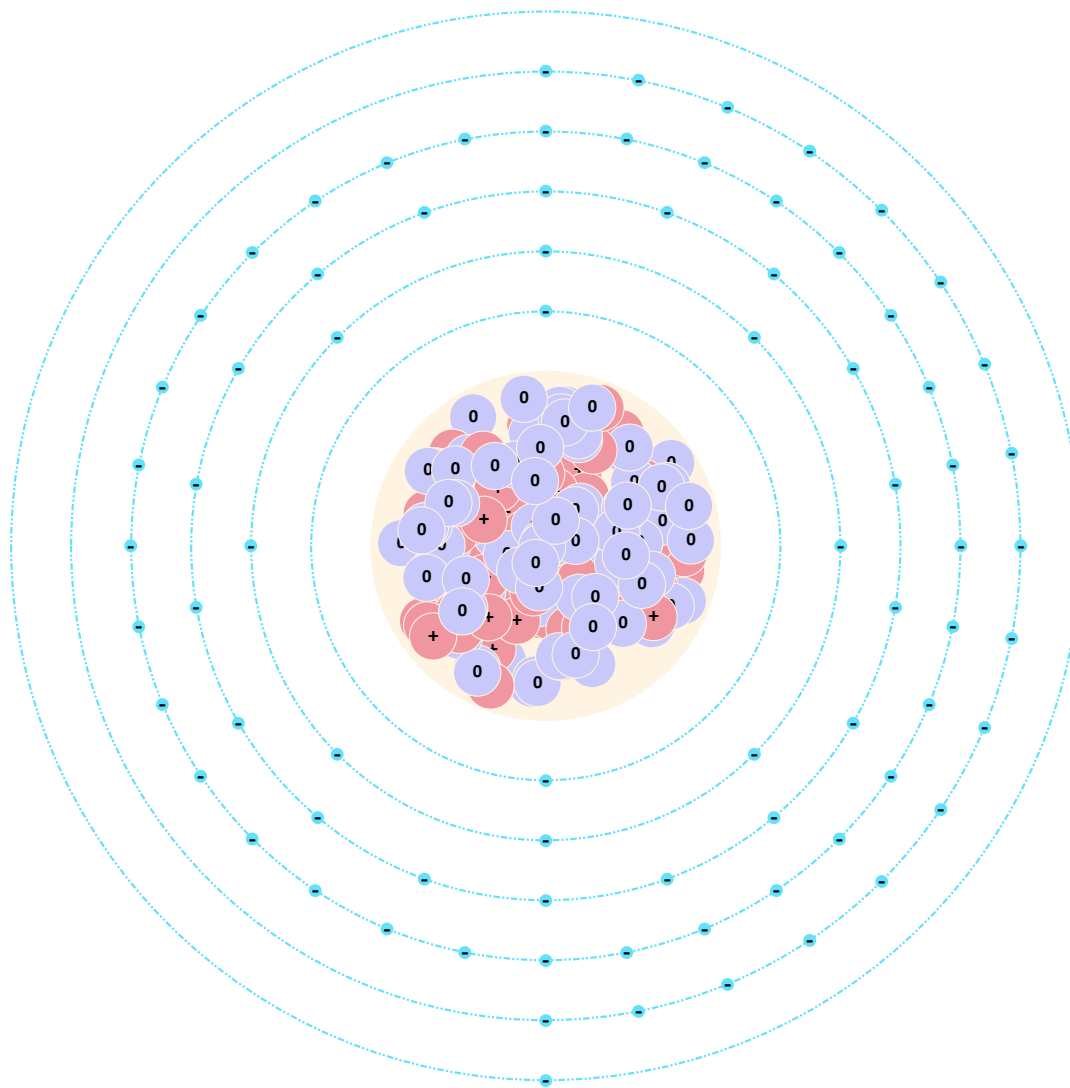
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Os</b>	76	190.23	<b>Osmium</b> 8 Transition Metal 8 8B Iron Group	[Xe]4f14 5d6 6s2 Transition Metal	114



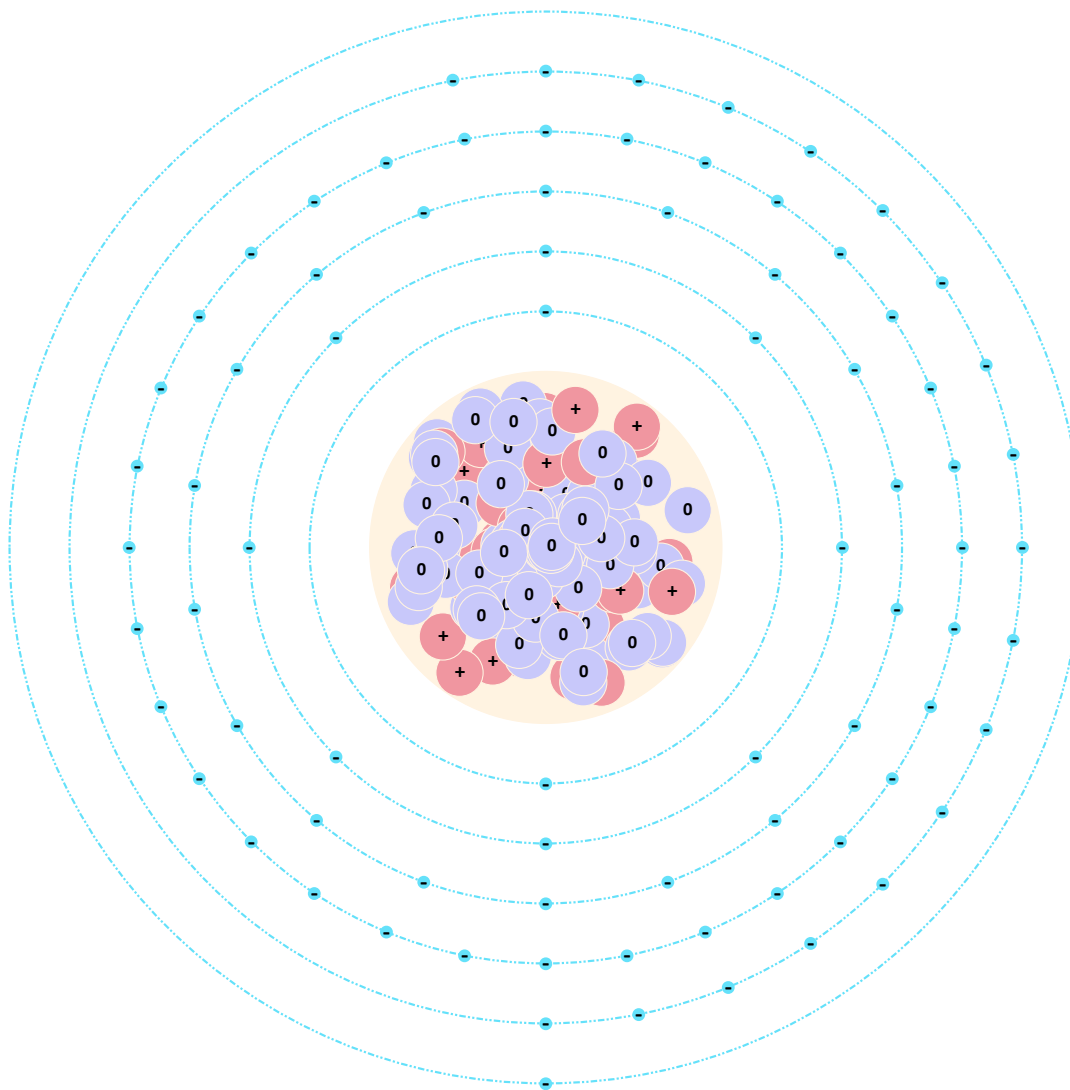
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<b>Ir</b>	77	192.217	<b>Iridium</b> 9 Transition Metal 8 (9) 8B Cobalt Group	[Xe]4f14 5d7 6s2 Transition Metal	115



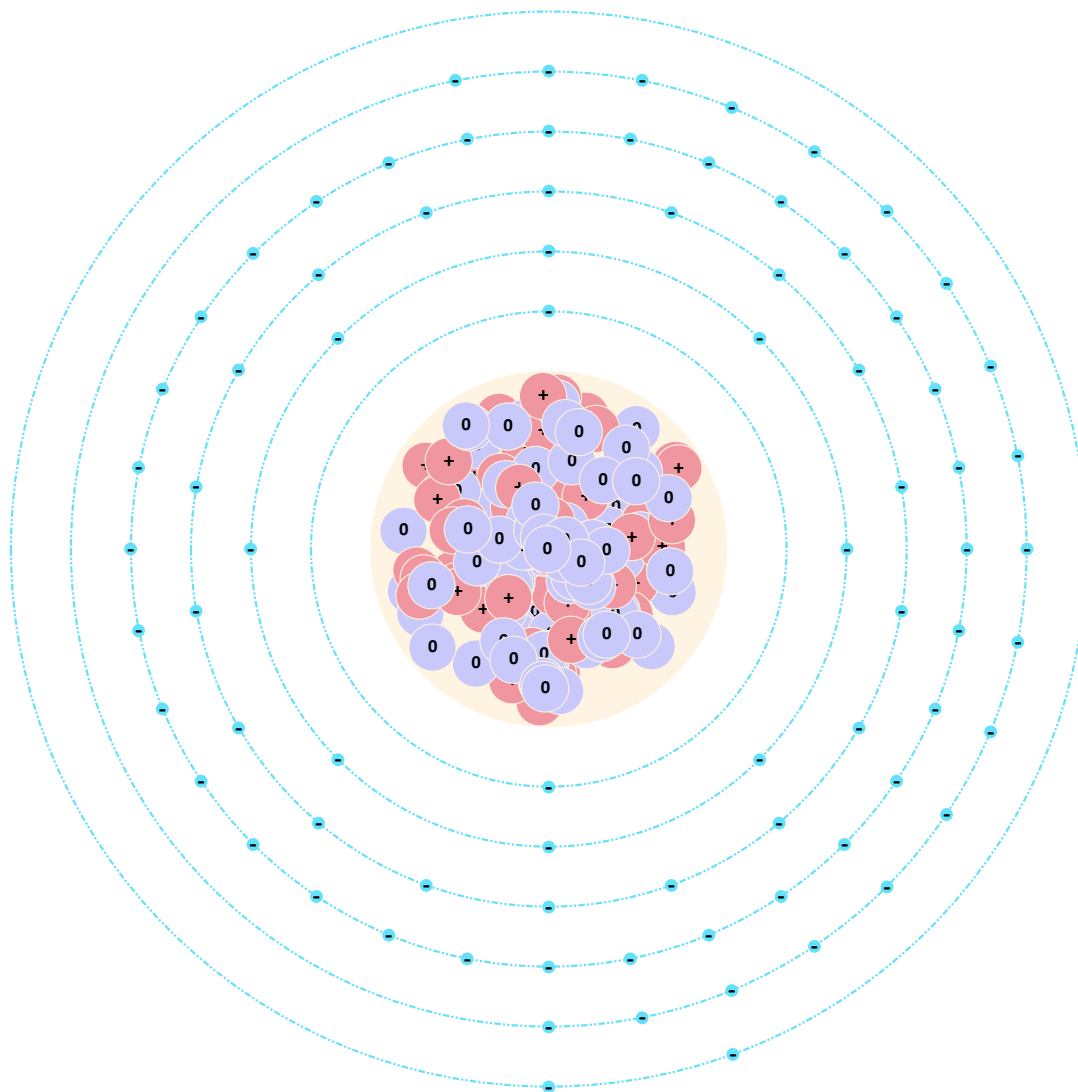
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Pt</b>	78	195.078	<b>Platinum</b> 10 Transition Metal 8 (10) 8B Nickel Group	[Xe]4f14 5d9 6s1 Transition Metal	117



Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Au</b>	79	196.967	<b>Gold</b>	[Xe]4f14 5d10 6s1	
			11 Transition Metal (coins)	Transition Metal	118
			1B Copper Group		

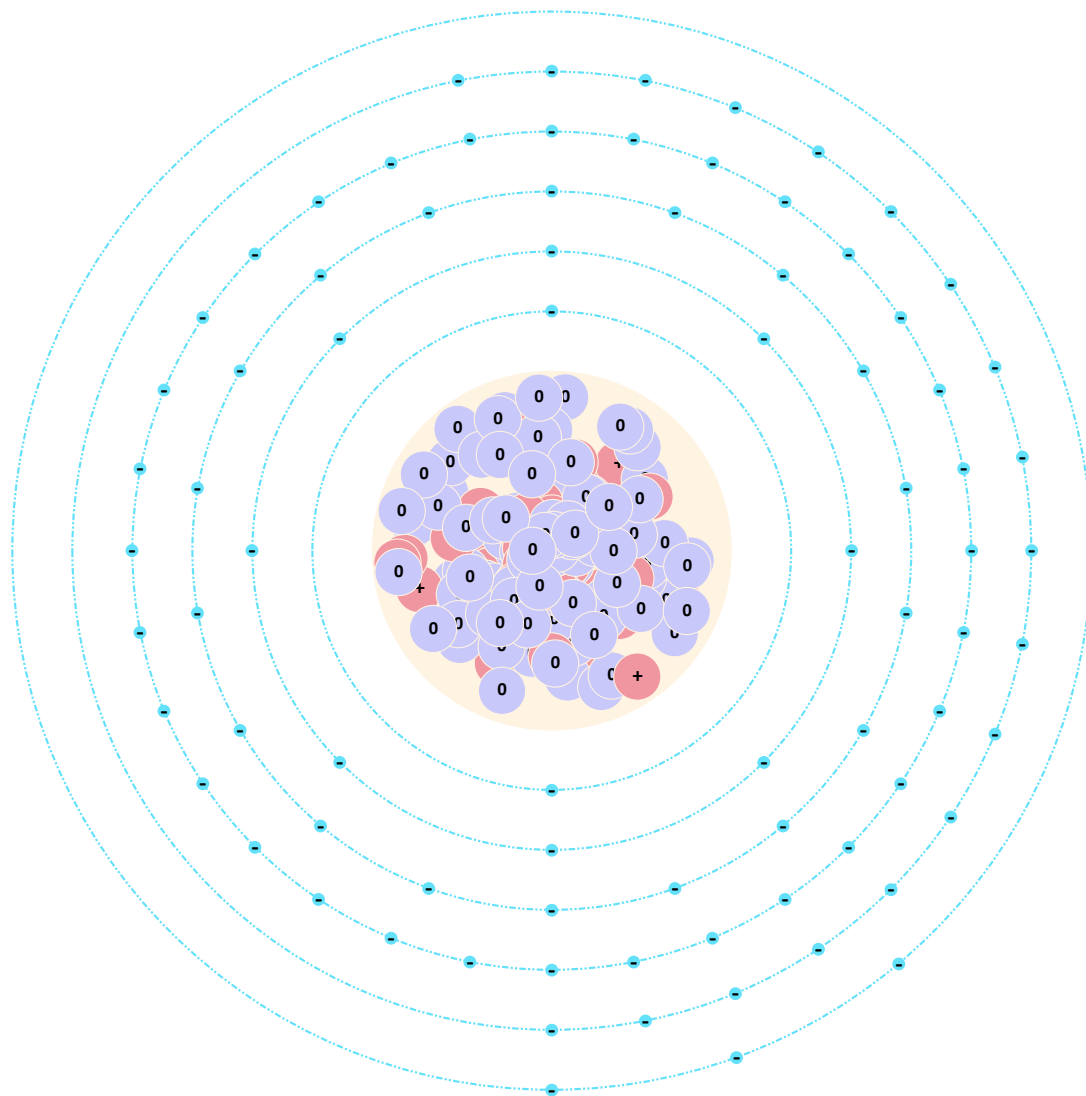


Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Hg</b>	80	200.59	<b>Mercury</b> 12 Volatile Metal 2B Zinc Group	[Xe]4f14 5d10 6s2 Transition Metal	121





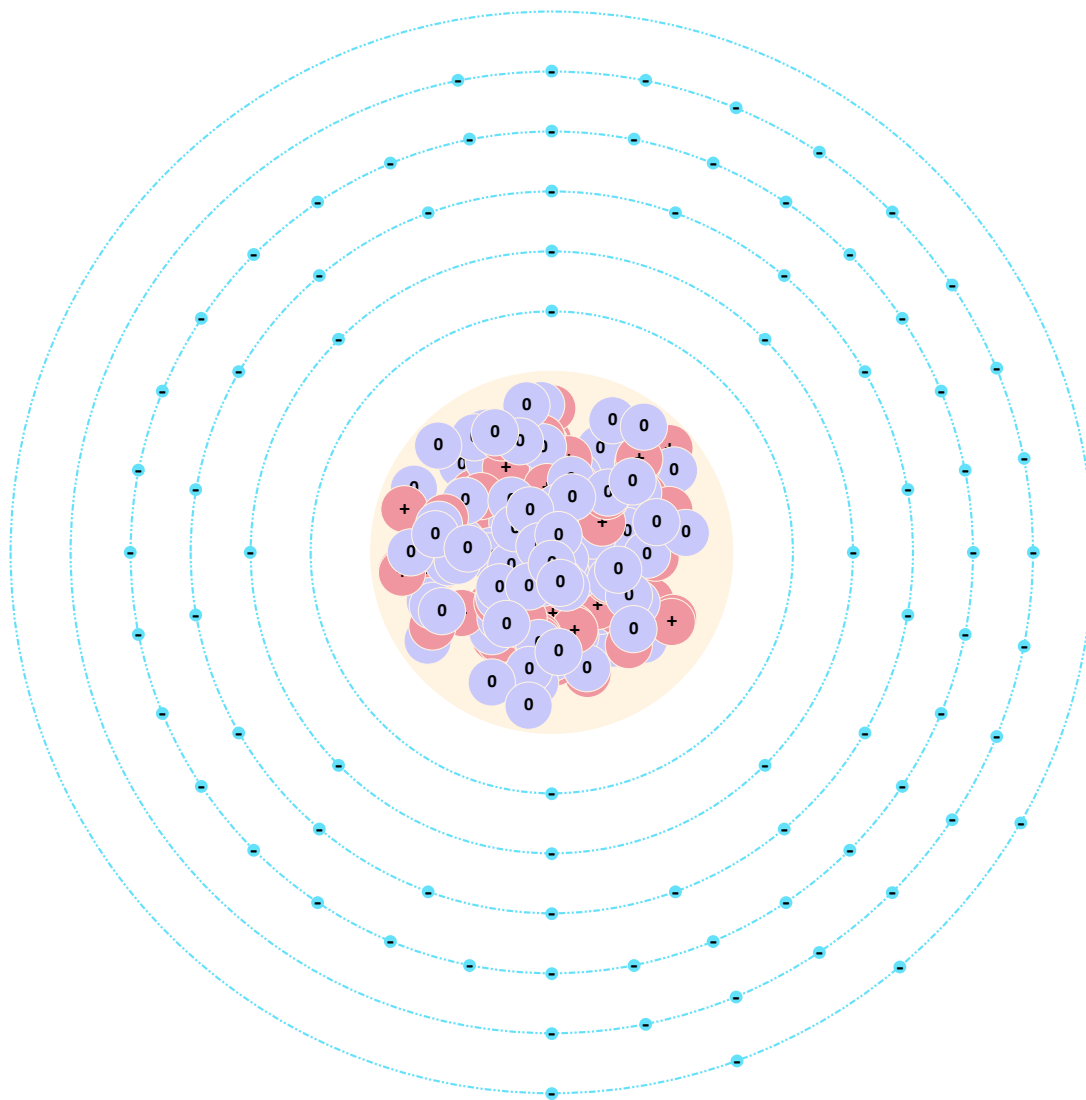
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<b>Tl</b>	81	204.383	<b>Thallium</b> 13 Triel 3A Boron Group	[Xe]4f14 5d10 6s2 6p1 Basic Metal	123



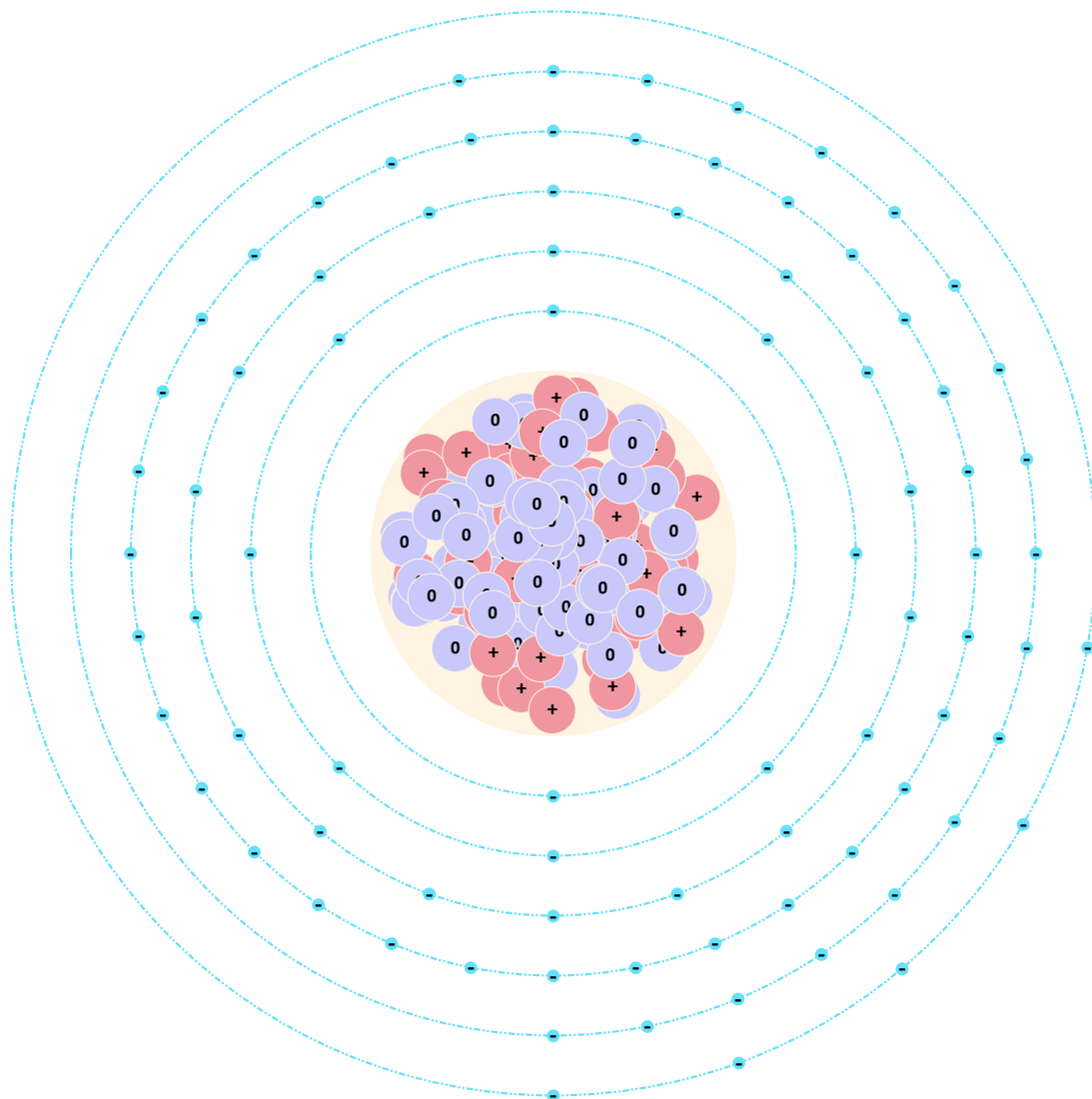
# Elements and Atoms - one per page

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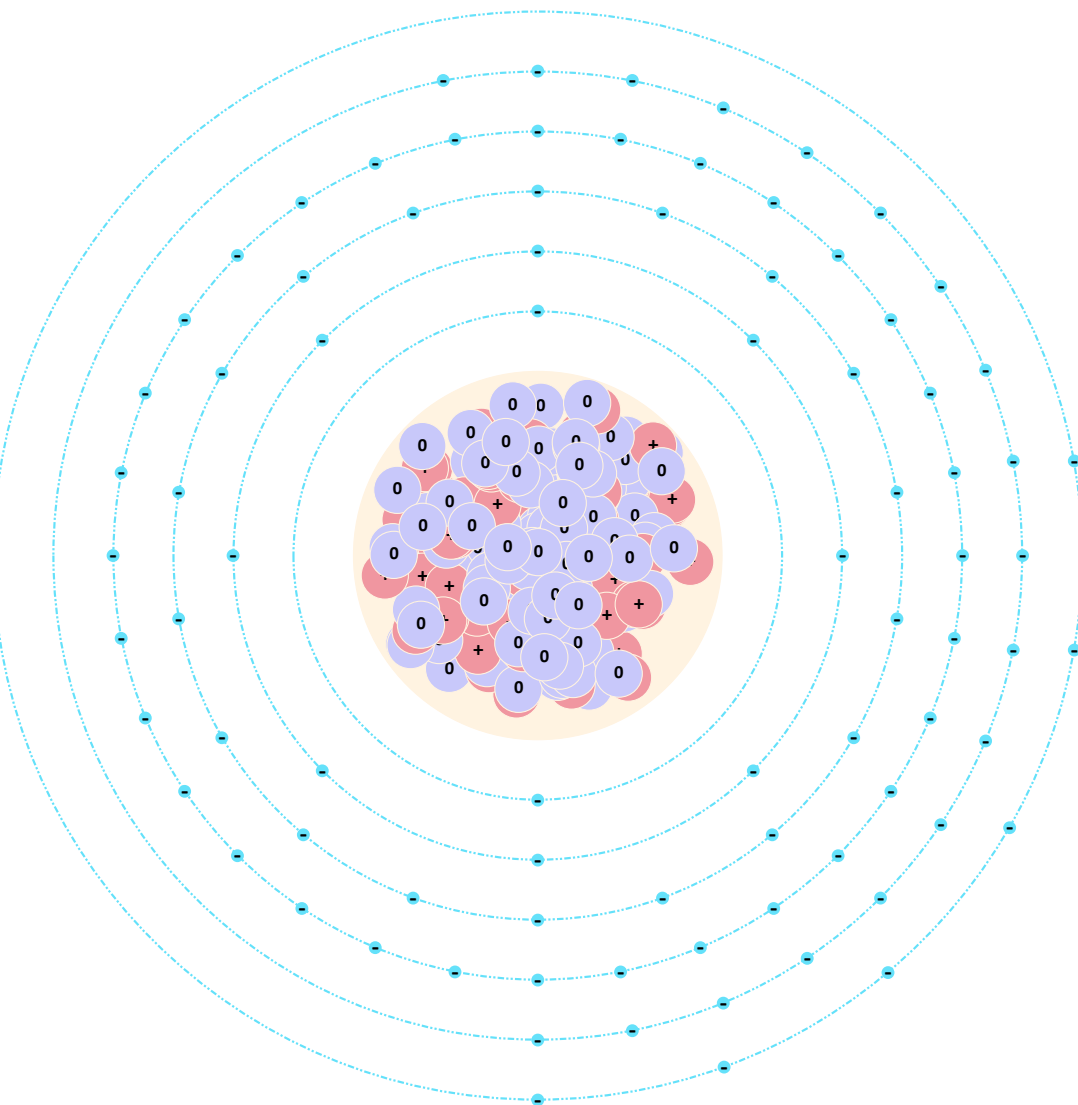
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<b>Pb</b>	82	207.2	<b>Lead</b> 14 Tetrel 4A Carbon Group	[Xe]4f14 5d10 6s2 6p2 Basic Metal Trace Circumstantial	125



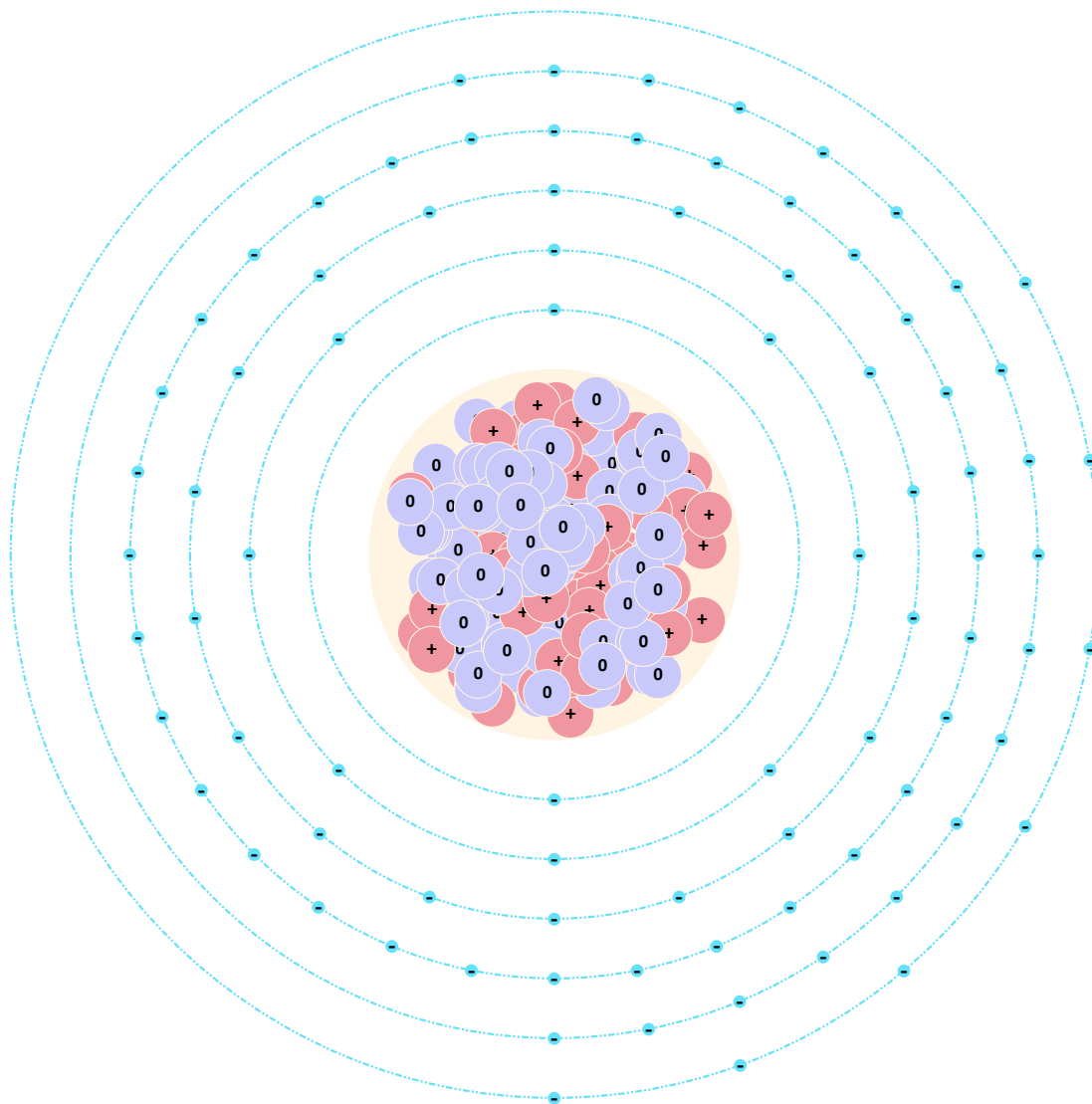
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<b>Bi</b>	83	208.98	<b>Bismuth</b> 15 Pnictogen 5A Nitrogen Group	[Xe]4f14 5d10 6s2 6p3 Basic Metal	126



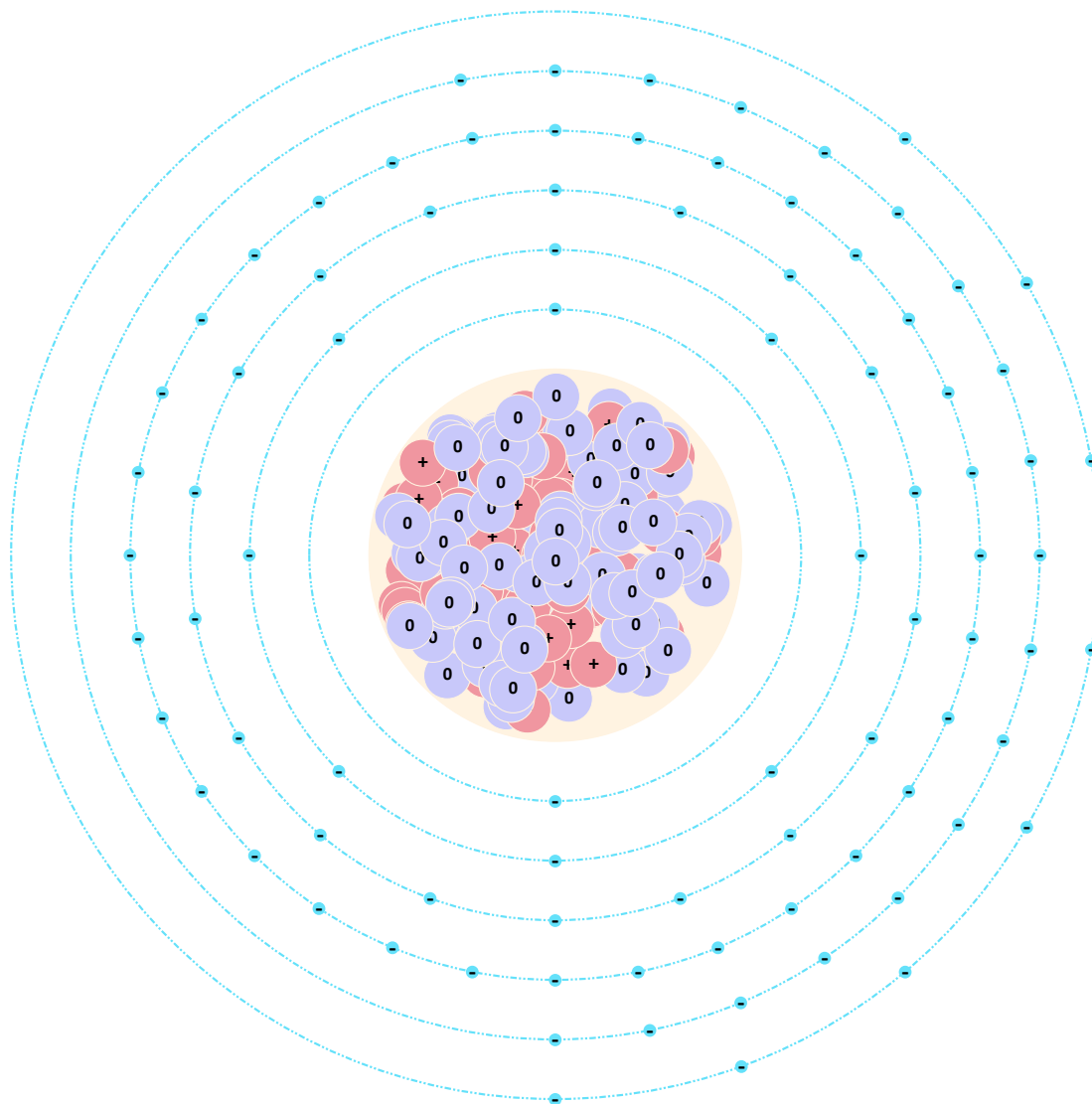
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Po</b>	84	209	<b>Polonium</b> 16 Chalcogen 6A Oxygen Group	[Xe]4f14 5d10 6s2 6p4 Metalloid	125



Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>At</b>	85	210	<b>Astatine</b>	[Xe]4f14 5d10 6s2 6p5	
	<i>Radioactive</i>		17 Halogen	Halogen	125
			7A Flourine Group		

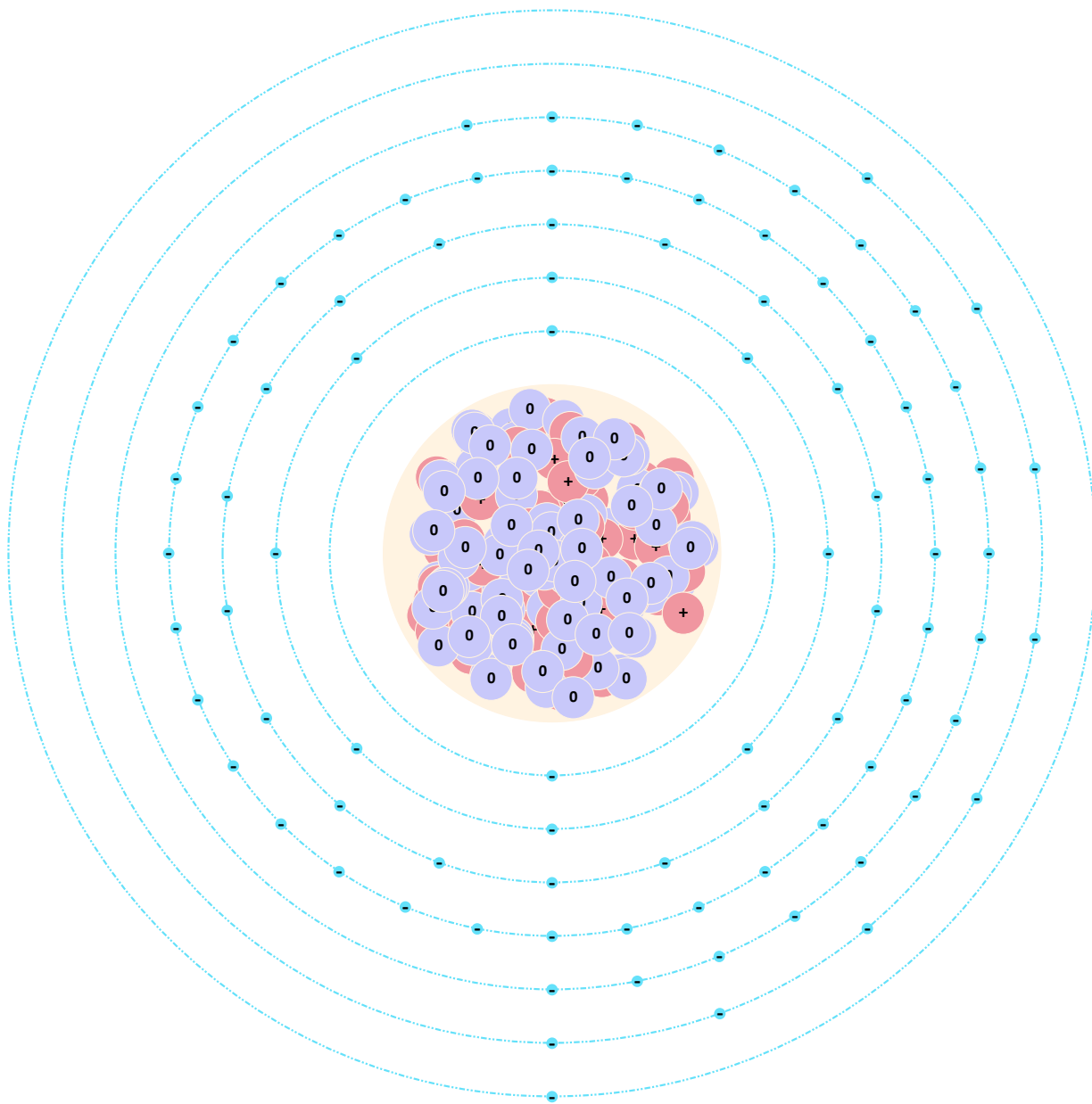


Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Rn</b>	86	222	<b>Radon</b>	[Xe]4f14 5d10 6s2 6p6	
	<i>Radioactive</i>		18 Noble Gas	Noble Gas	136
			8A Helium Group		



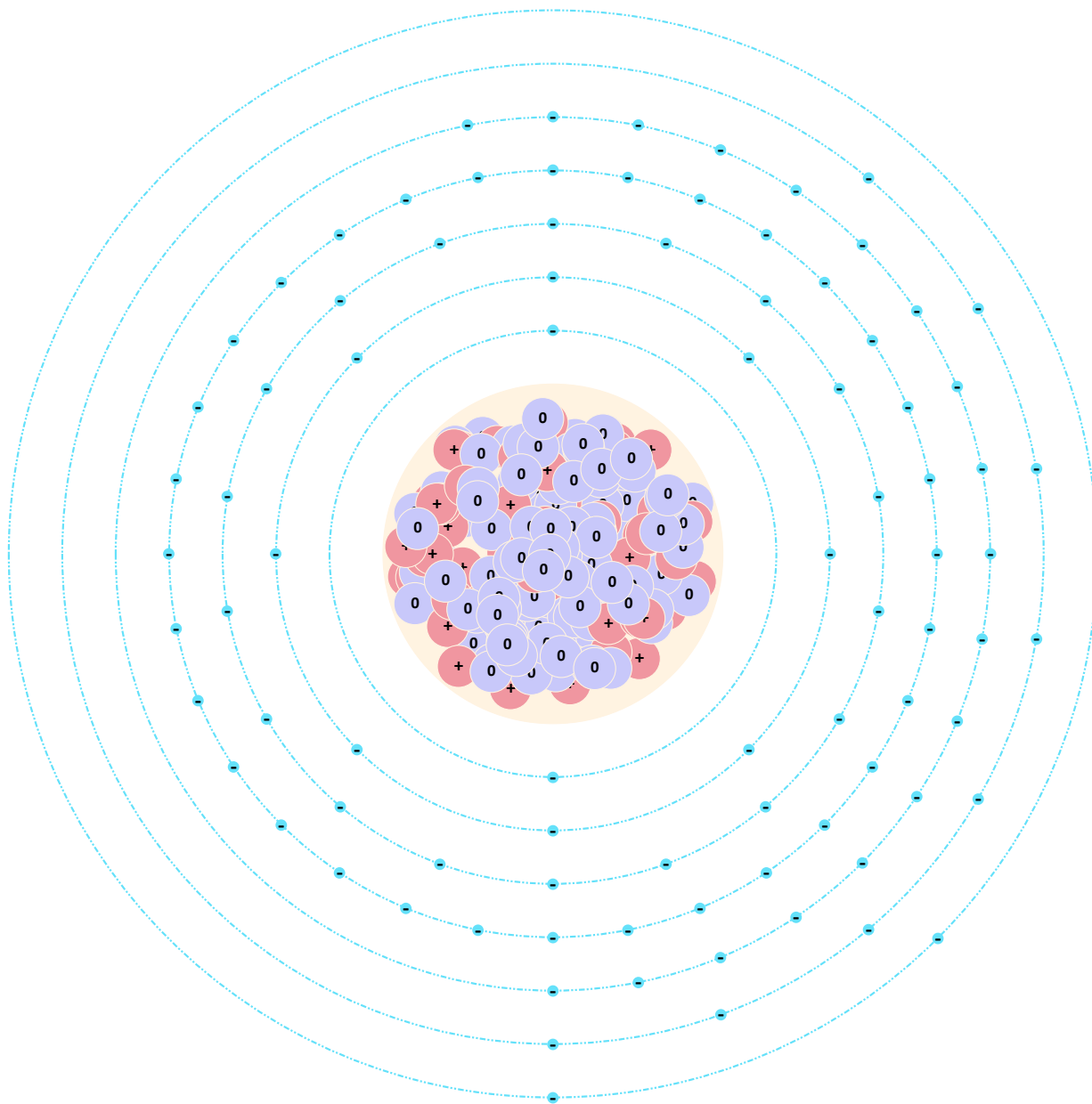
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Fr</b>	87	223	<b>Francium</b> 1 Alkali Metal +H 1A Lithium Group	[Rn]7s1 Alkali Metal	136

*Radioactive*



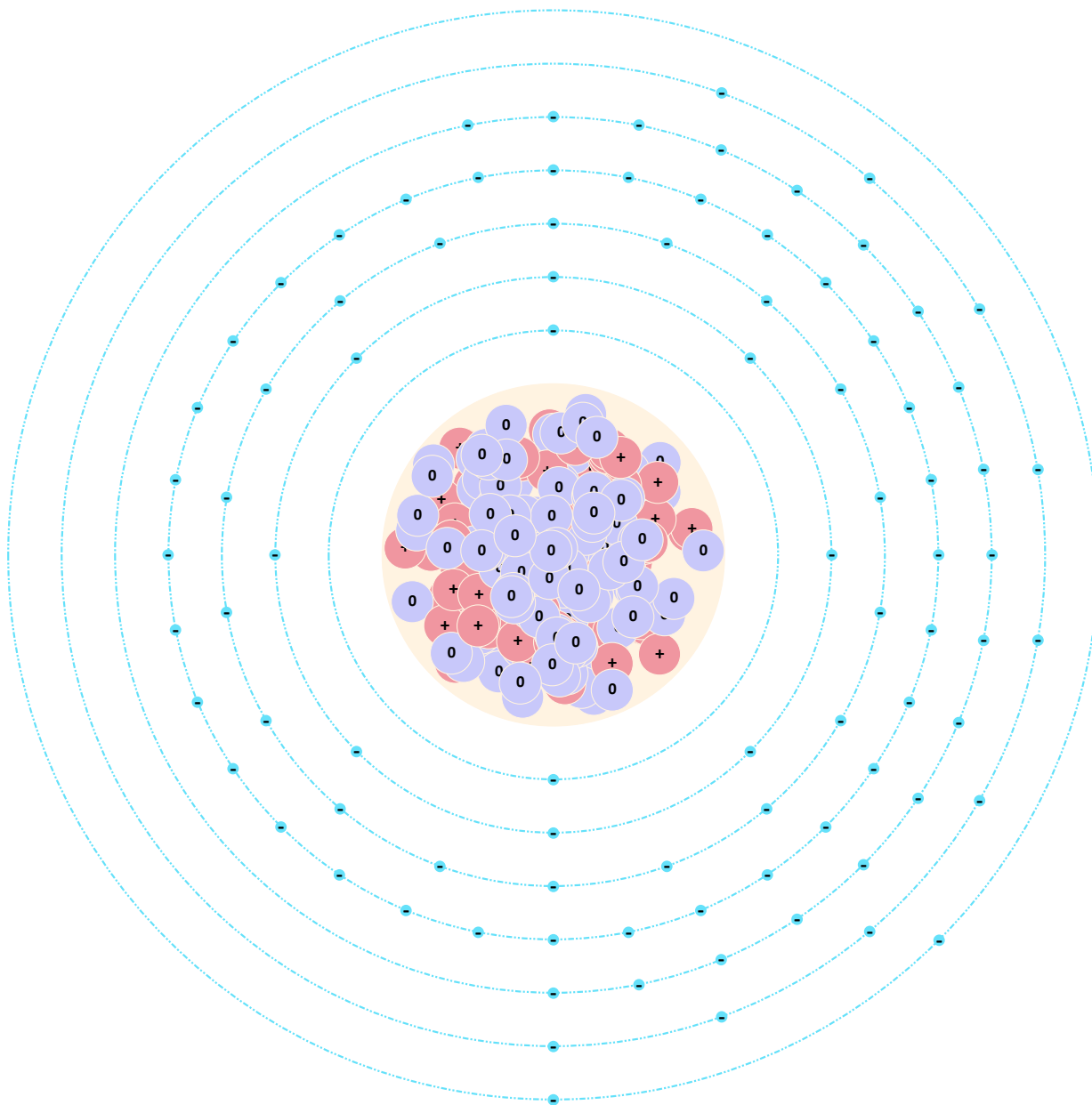
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<b>Ra</b>	88	226	<b>Radium</b> 2 Alkaline Earth Metal 2A Beryllium Group	[Rn]7s2 Alkaline Earth Metal	138

*Radioactive*

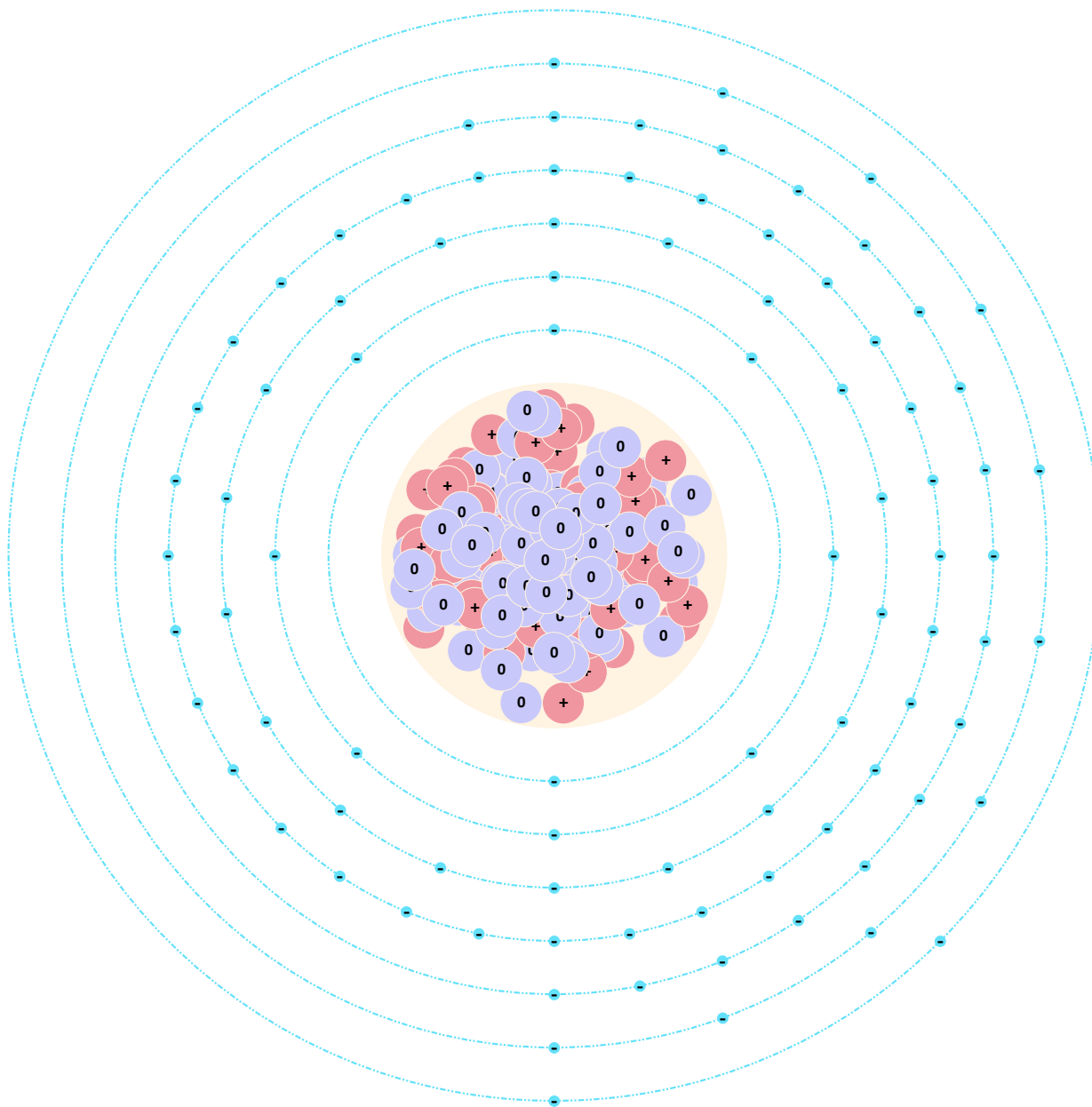




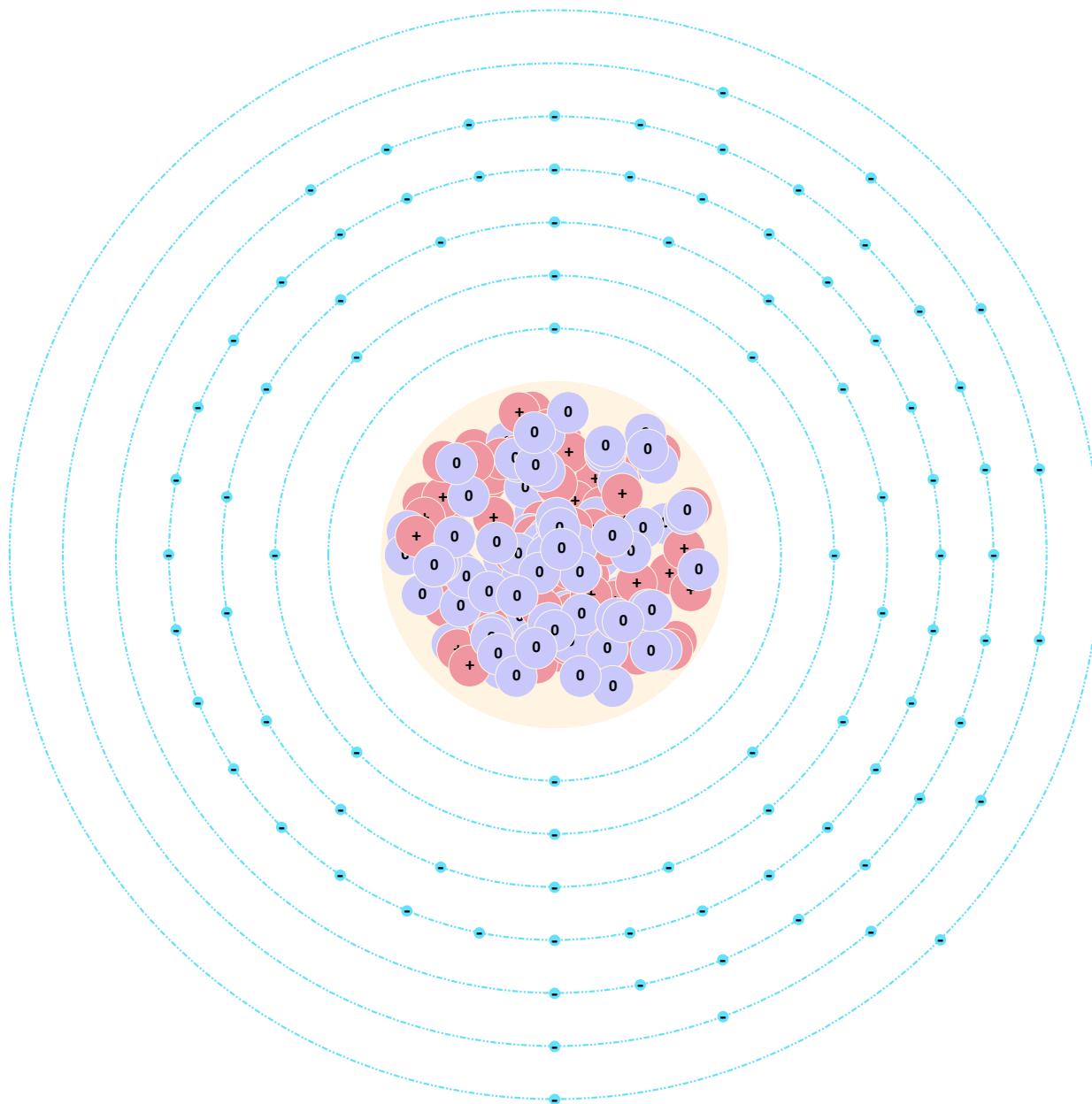
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Ac	89	227	<b>Actinium</b> Actinide Ac Actinium Group	[Rn]6d1 7s2 Actinide	138



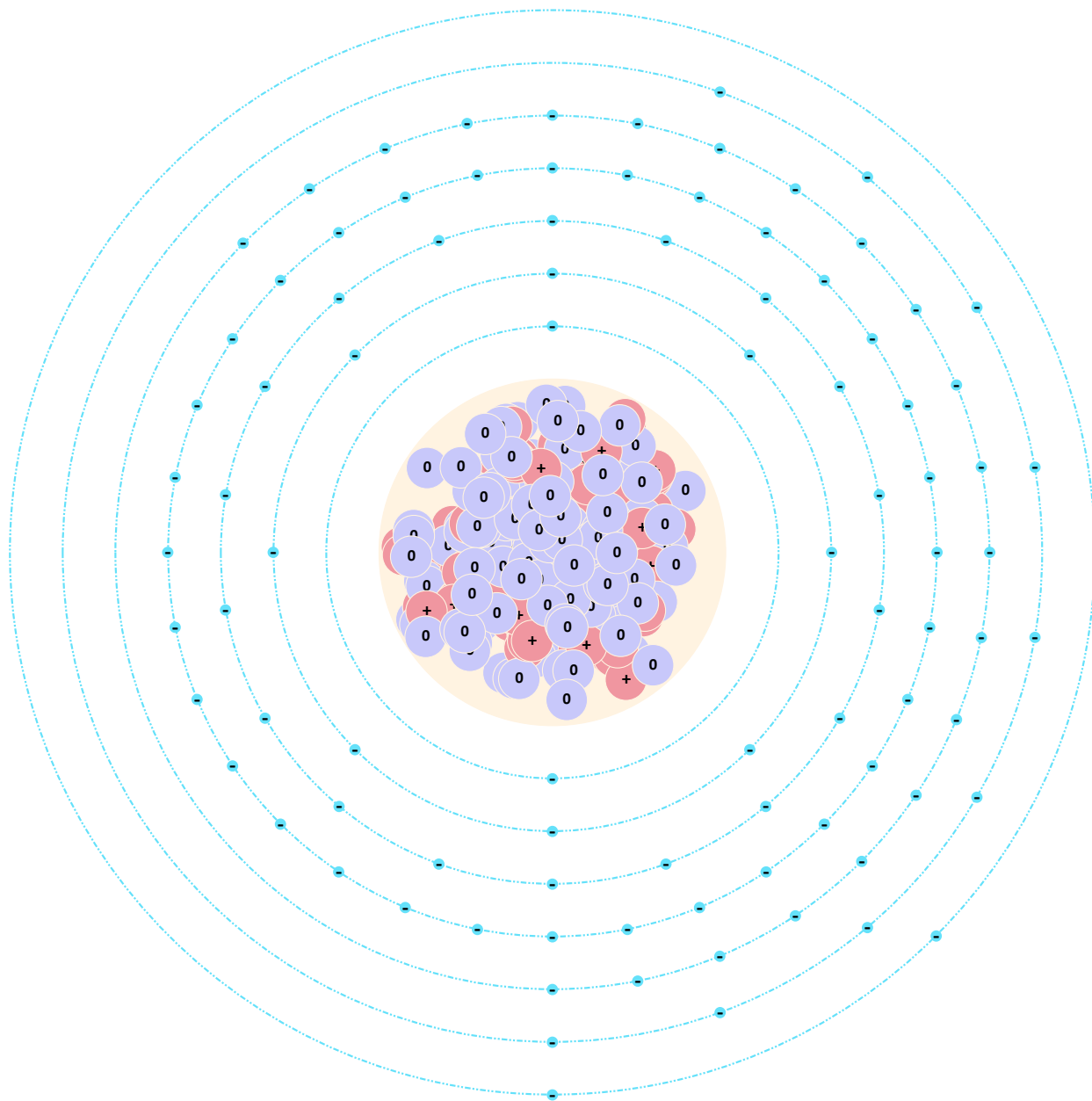
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<b>Th</b>	90	232.038	<b>Thorium</b> Actinide Ac Actinium Group	[Rn]6d2 7s2 Actinide	142



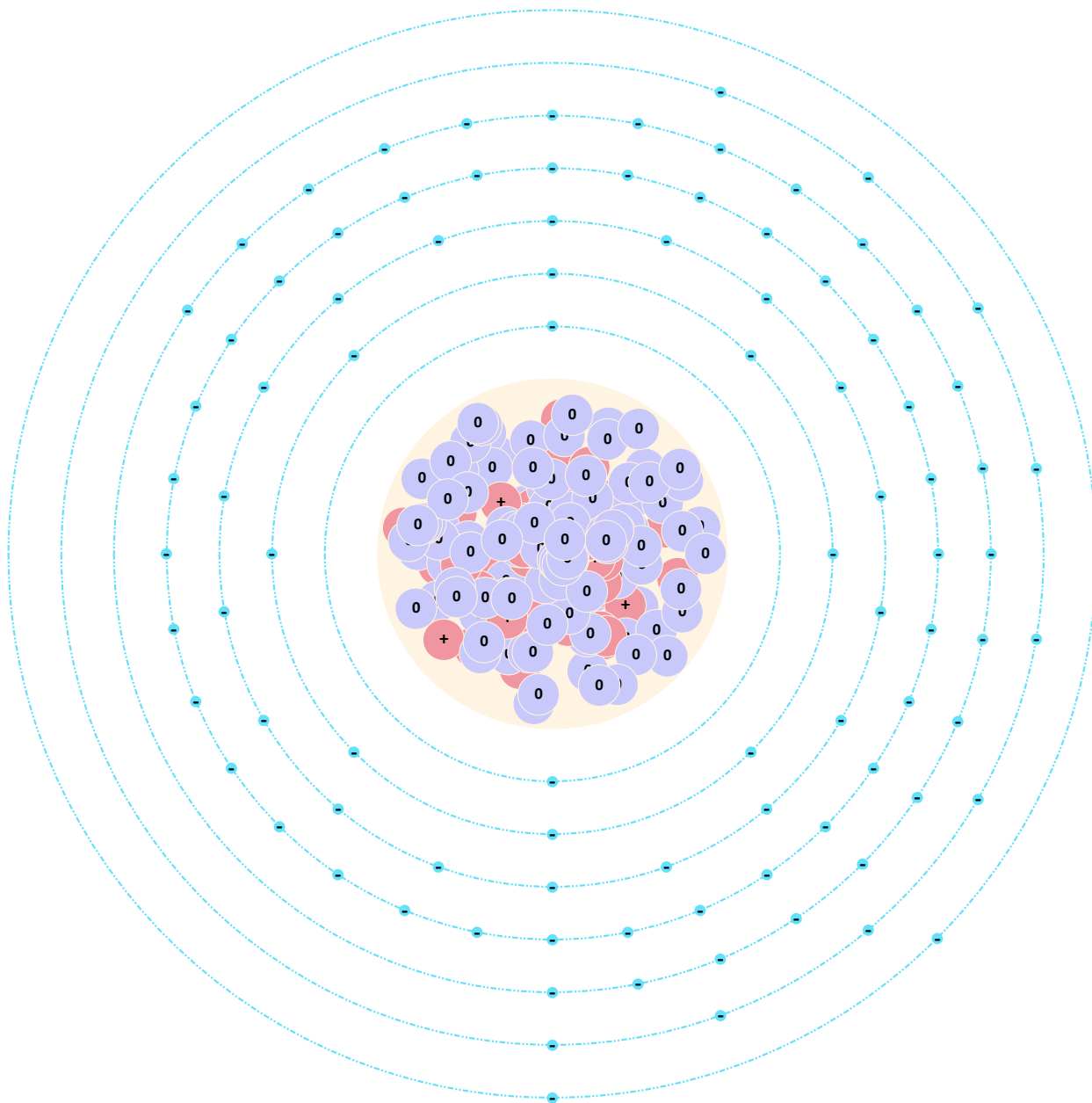
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<b>Pa</b>	91	231.036	<b>Protactinium</b> Actinide Ac Actinium Group	[Rn]5f2 6d1 7s2 Actinide	140



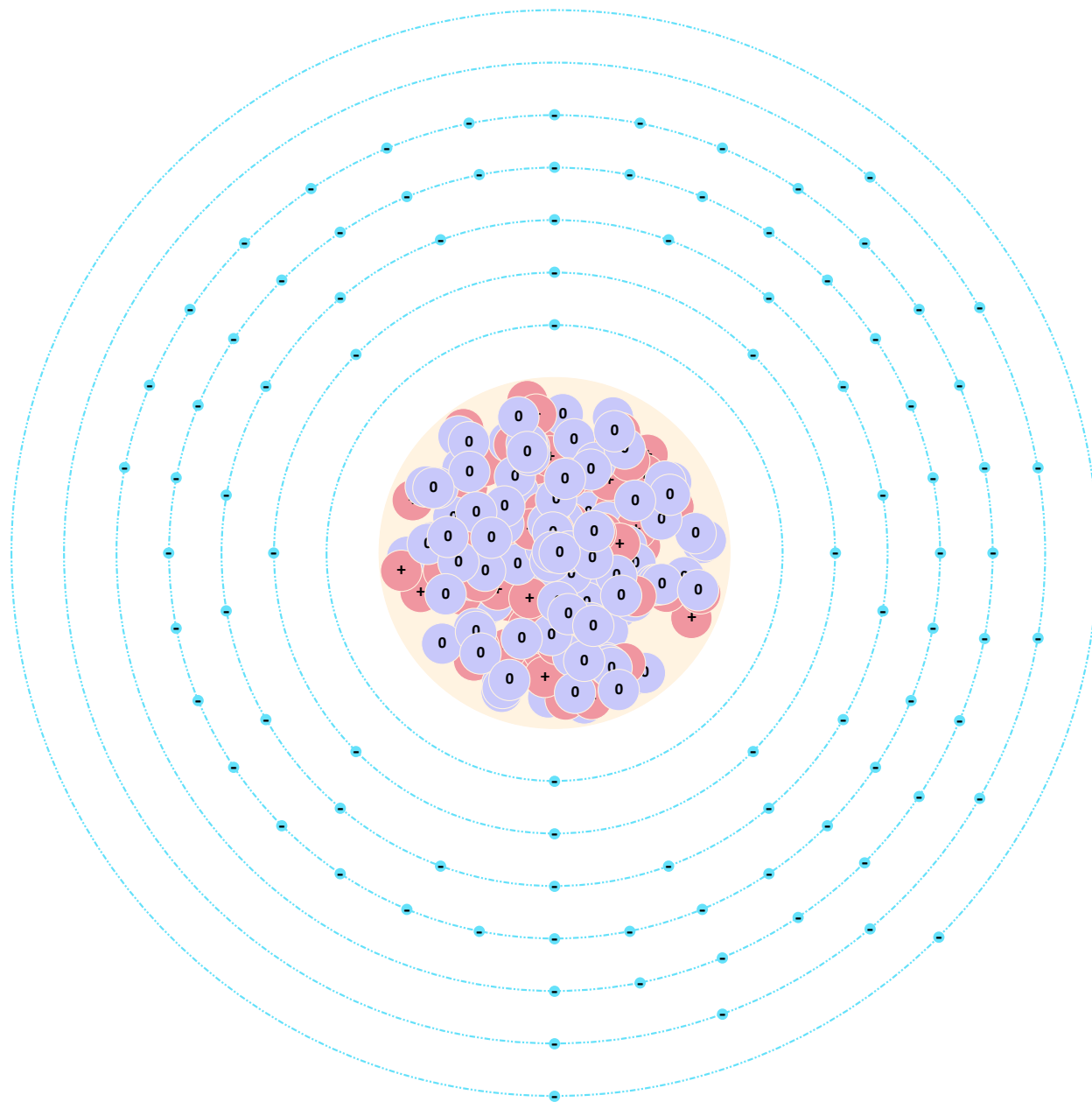
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<b>U</b>	92	238.029	<b>Uranium</b> Actinide Ac Actinium Group	[Rn]5f3 6d1 7s2 Actinide	146



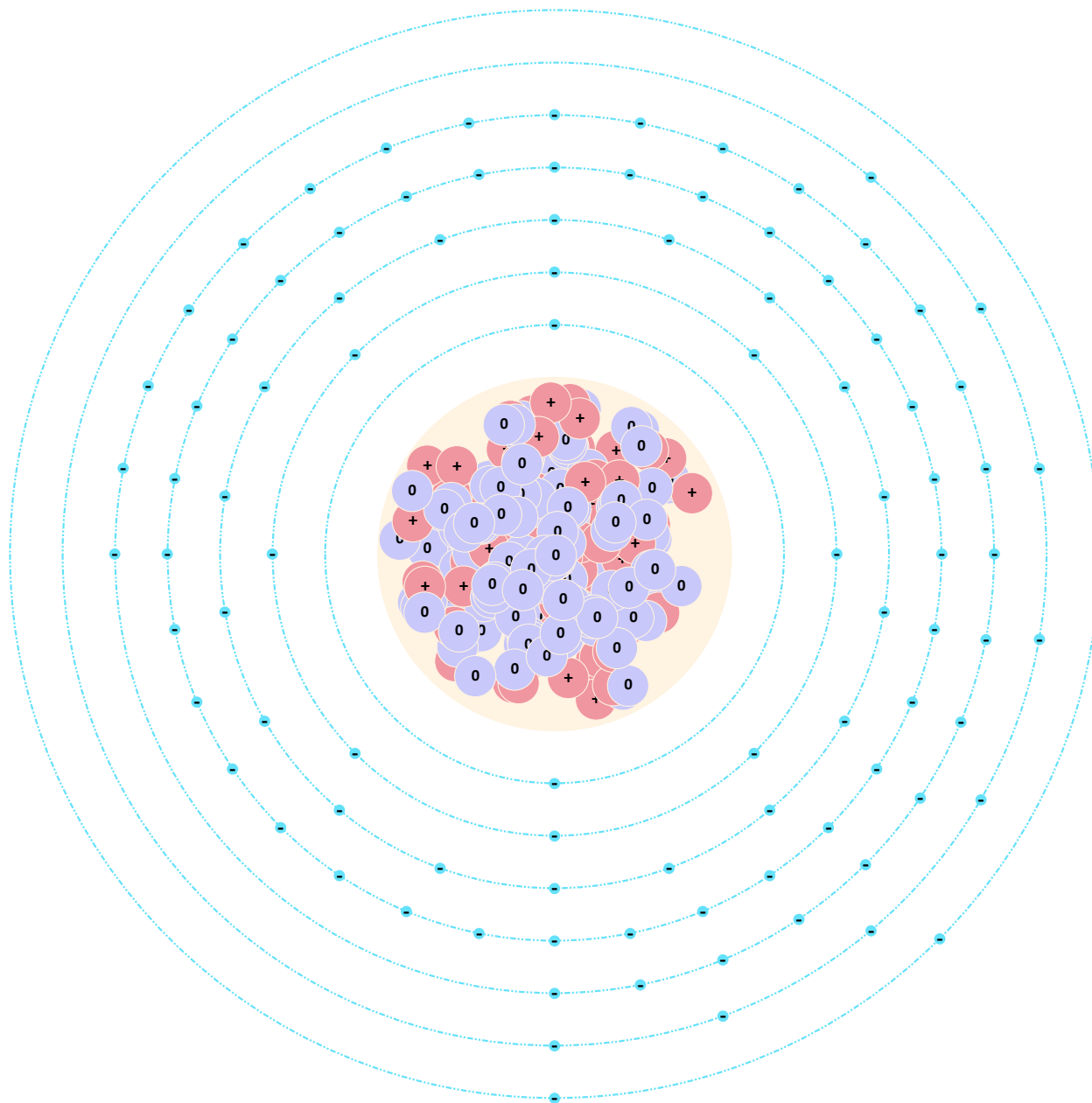
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Np</b>	93	237	<b>Neptunium</b> Actinide Ac Actinium Group	[Rn]5f4 6d1 7s2 Actinide	144



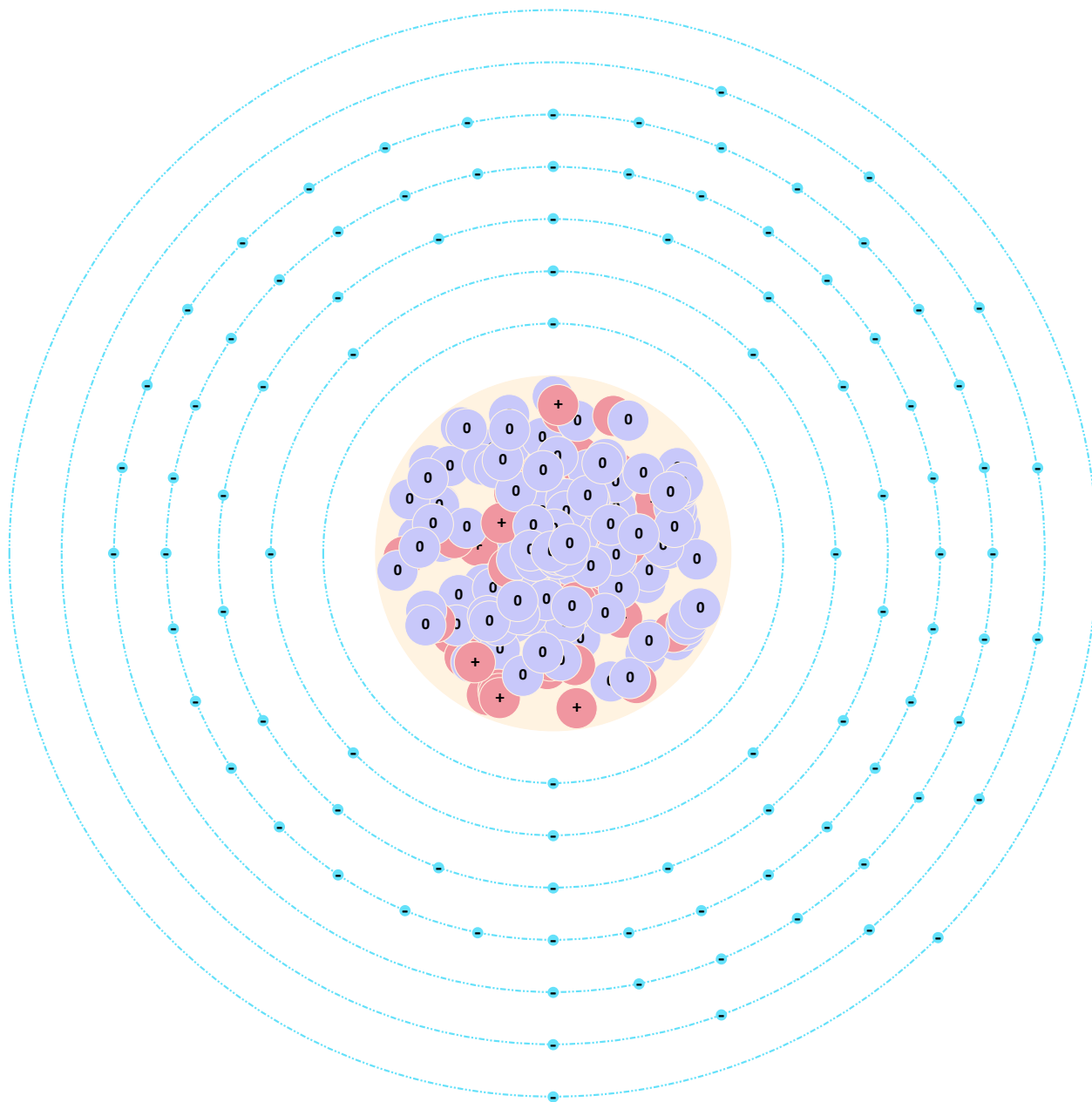
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Pu</b>	94	244	<b>Plutonium</b> Actinide Ac Actinium Group	[Rn]5f6 7s2 Actinide	150



Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Am</b>	95	243	<b>Americium</b> Actinide Ac Actinium Group	[Rn]5f7 7s2 Synthesized, not stable	148

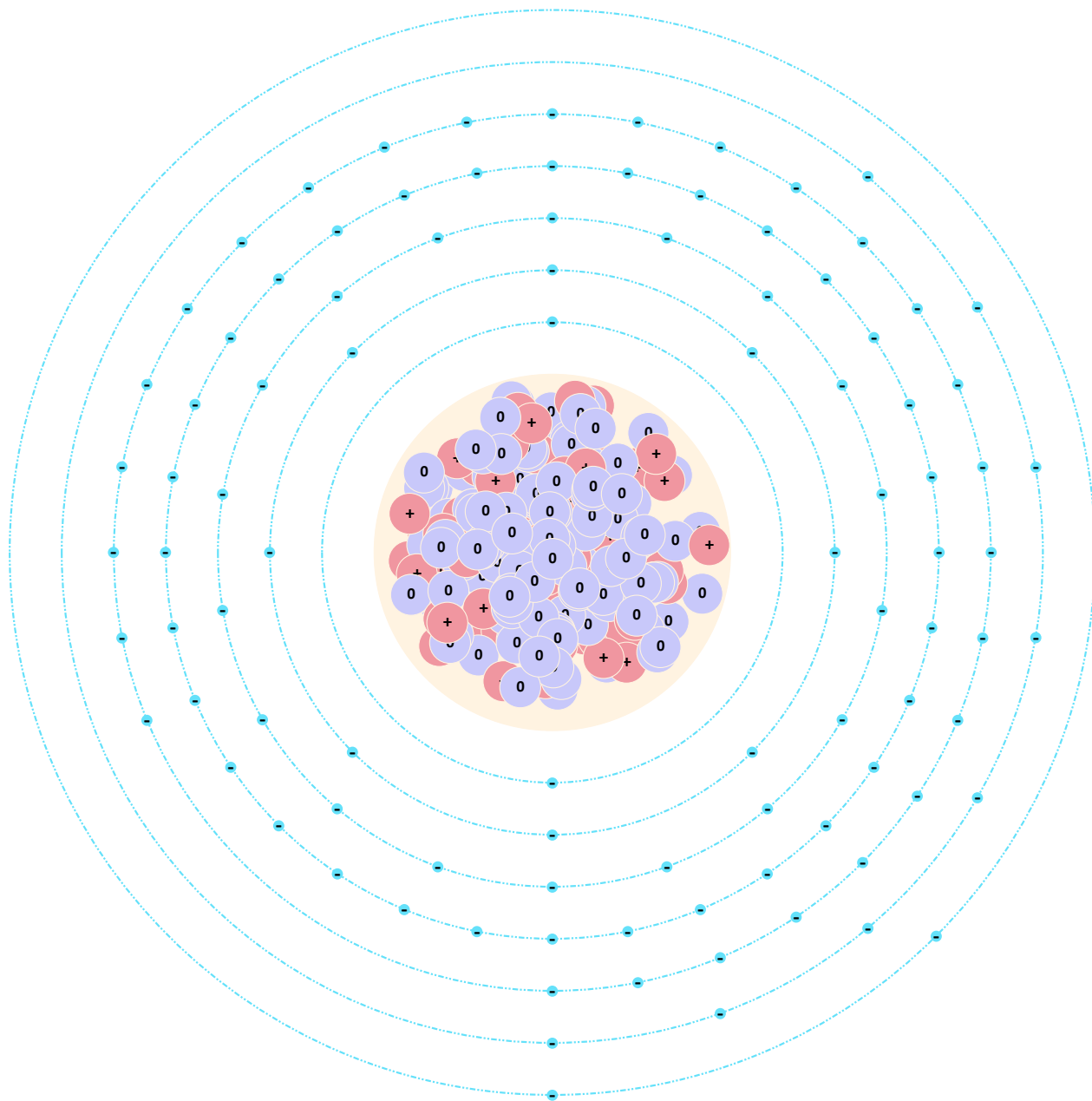


Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Cm</b>	96	247	<b>Curium</b> Actinide Ac Actinium Group	[Rn]5f7 6d1 7s2 Synthesized, not stable	151

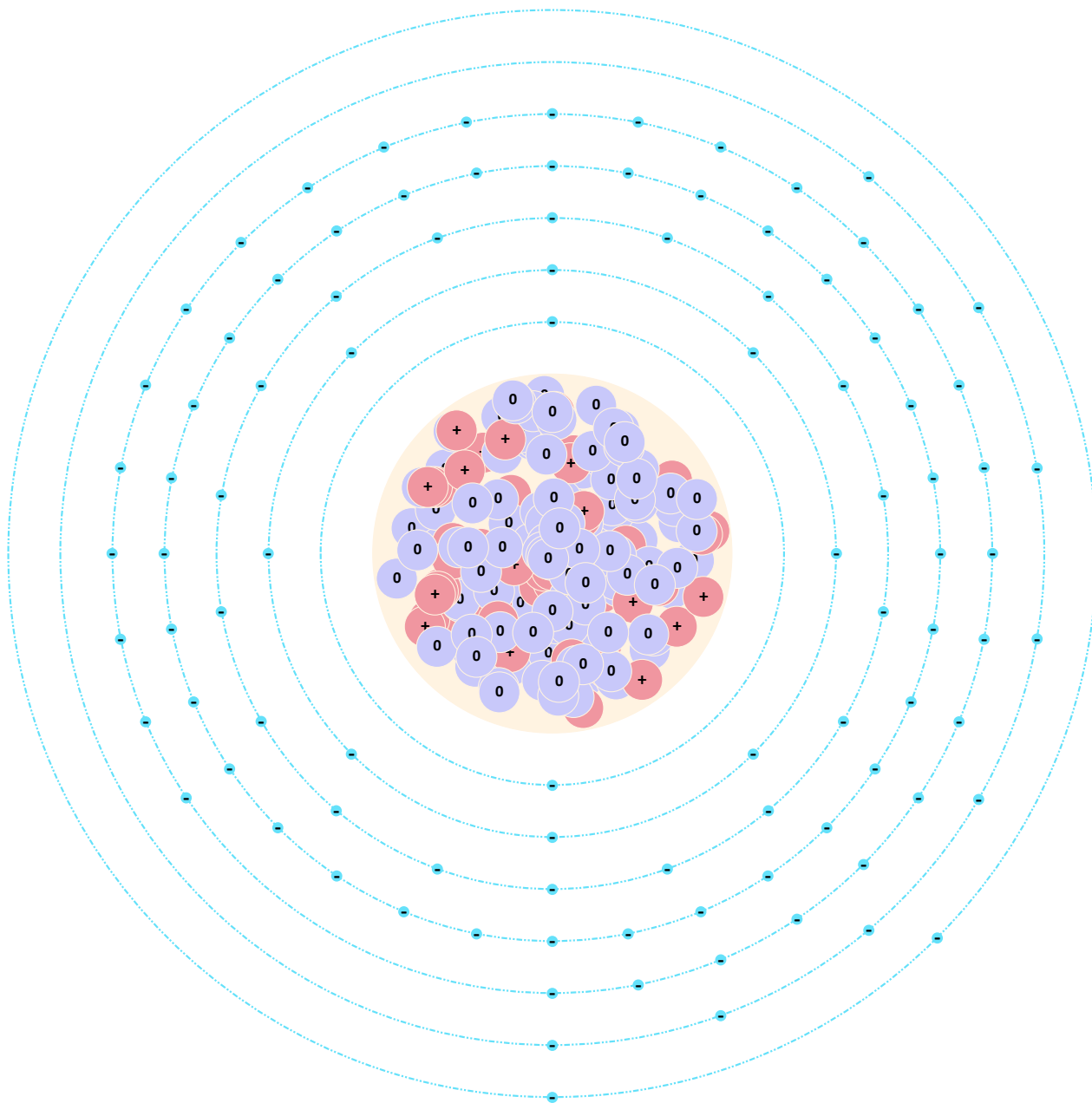




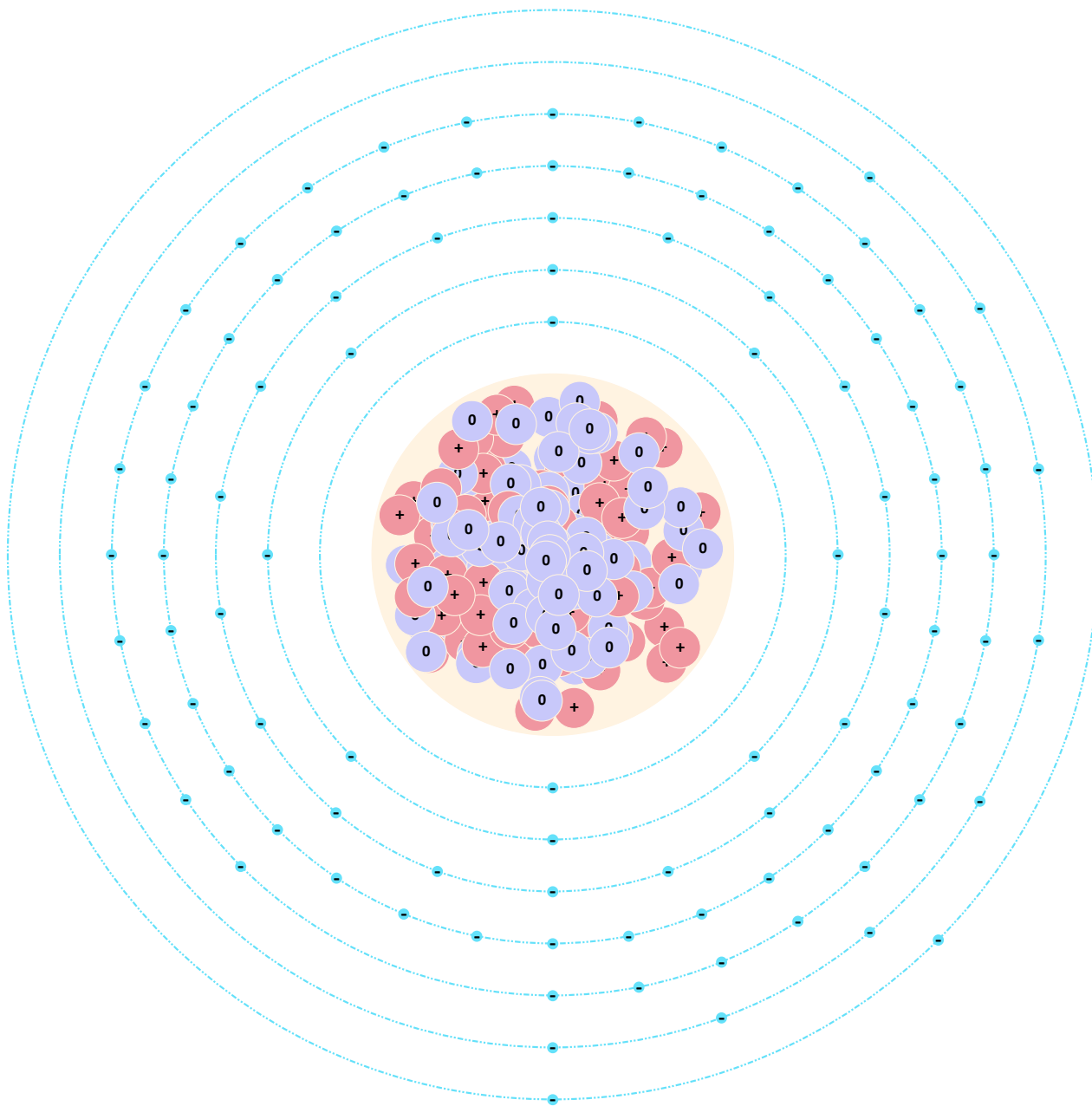
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Bk</b>	97	247	<b>Berkelium</b> Actinide Ac Actinium Group	[Rn]5f9 7s2 Synthesized, not stable	150



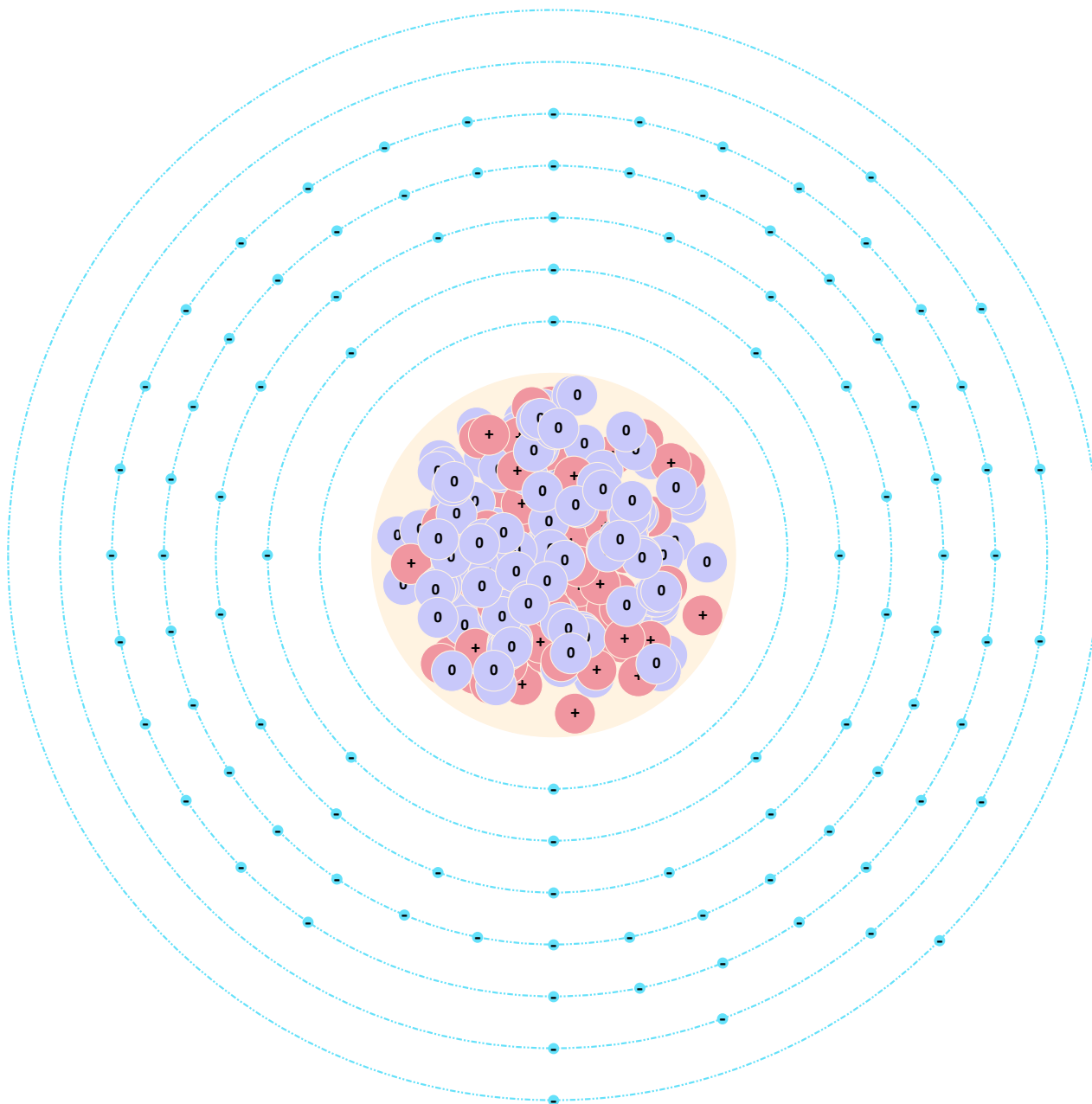
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Cf</b>	98	251	<b>Californium</b> Actinide Ac Actinium Group	[Rn]5f10 7s2 Synthesized, not stable	153



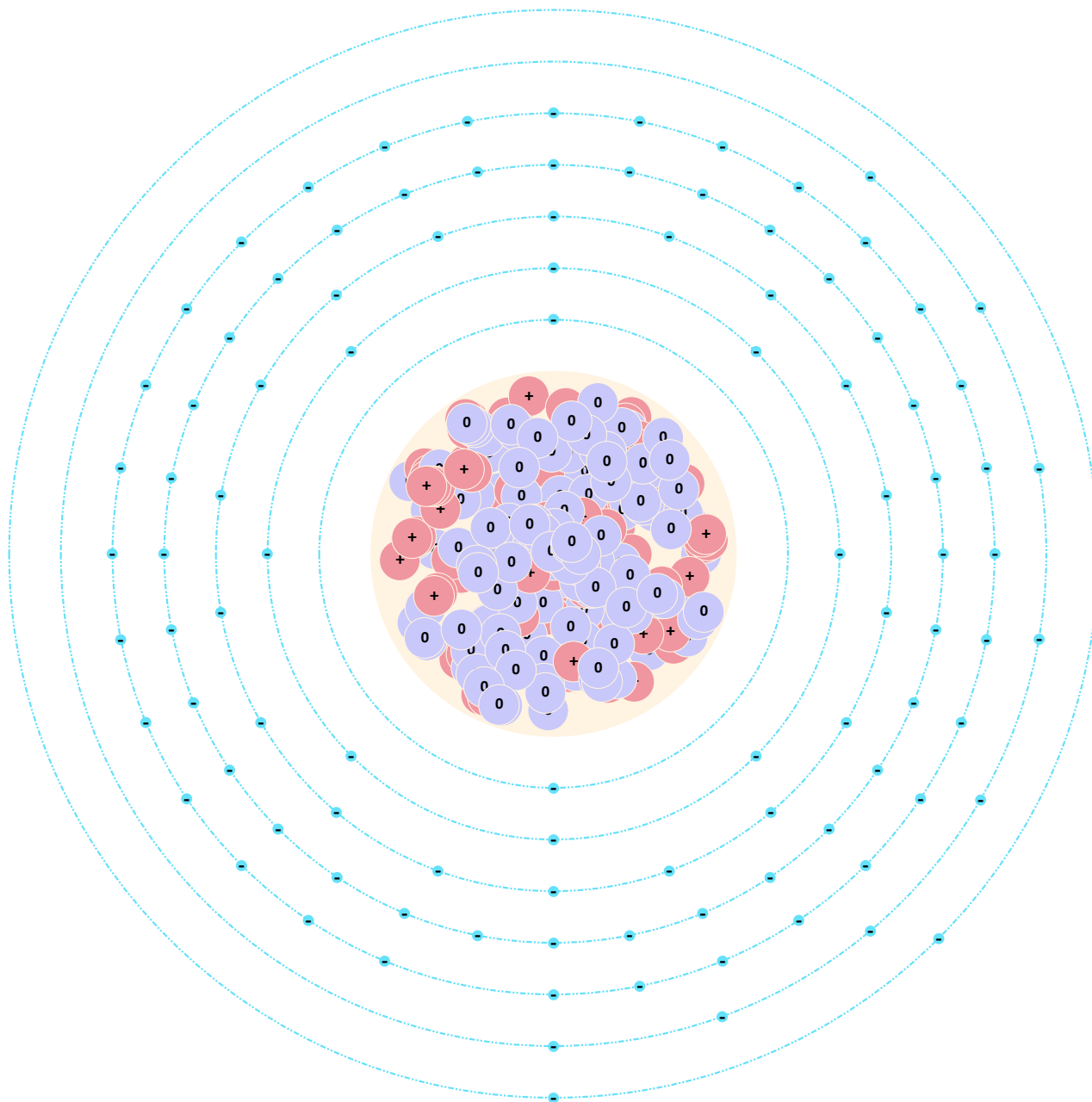
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Es</b>	99	252	<b>Einsteinium</b> Actinide Ac Actinium Group	[Rn]5f11 7s2 Synthesized, not stable	153



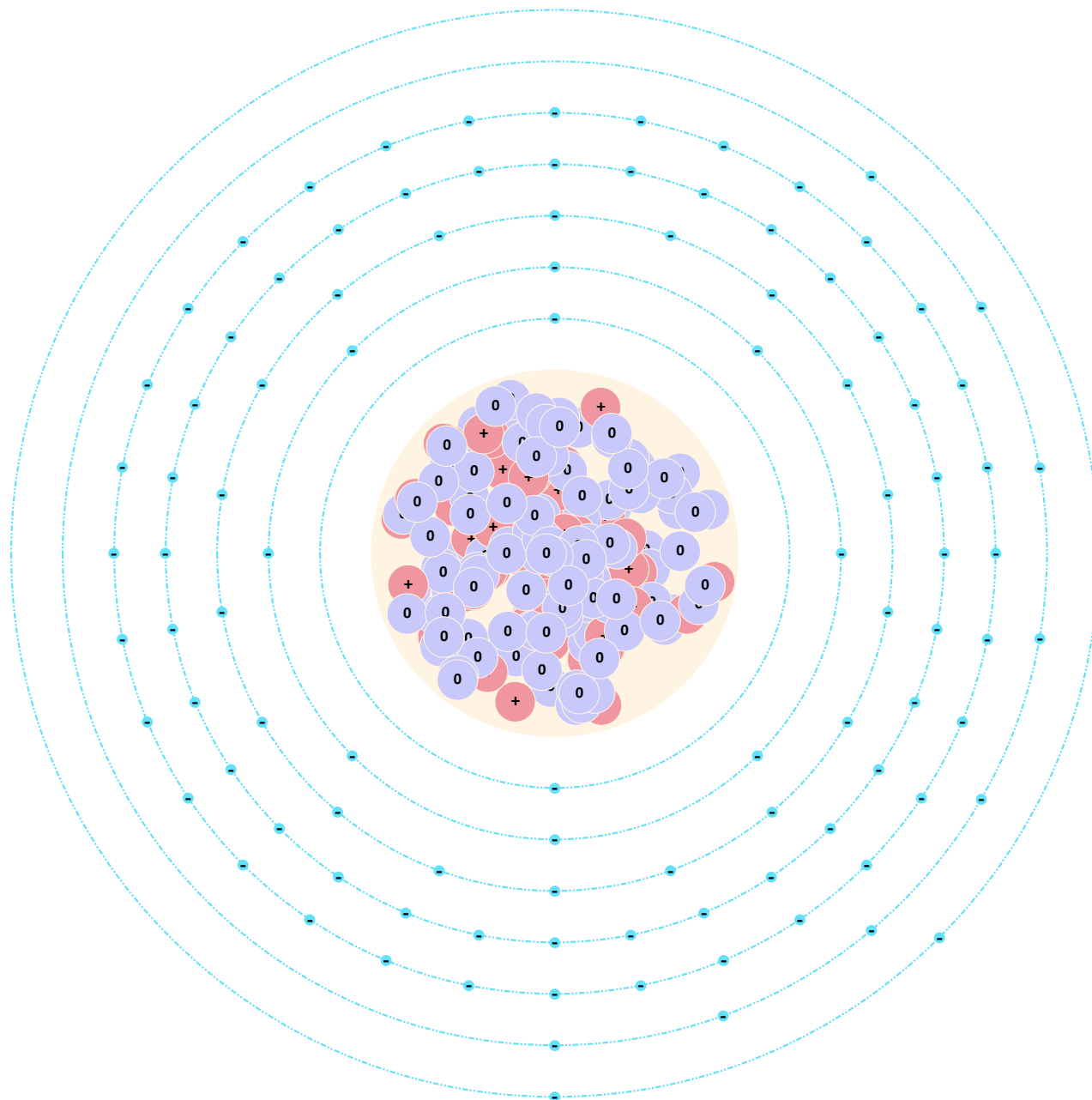
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Fm</b>	100	257	<b>Fermium</b> Actinide Ac Actinium Group	[Rn]5f <sup>12</sup> 7s <sup>2</sup> Synthesized, not stable	157



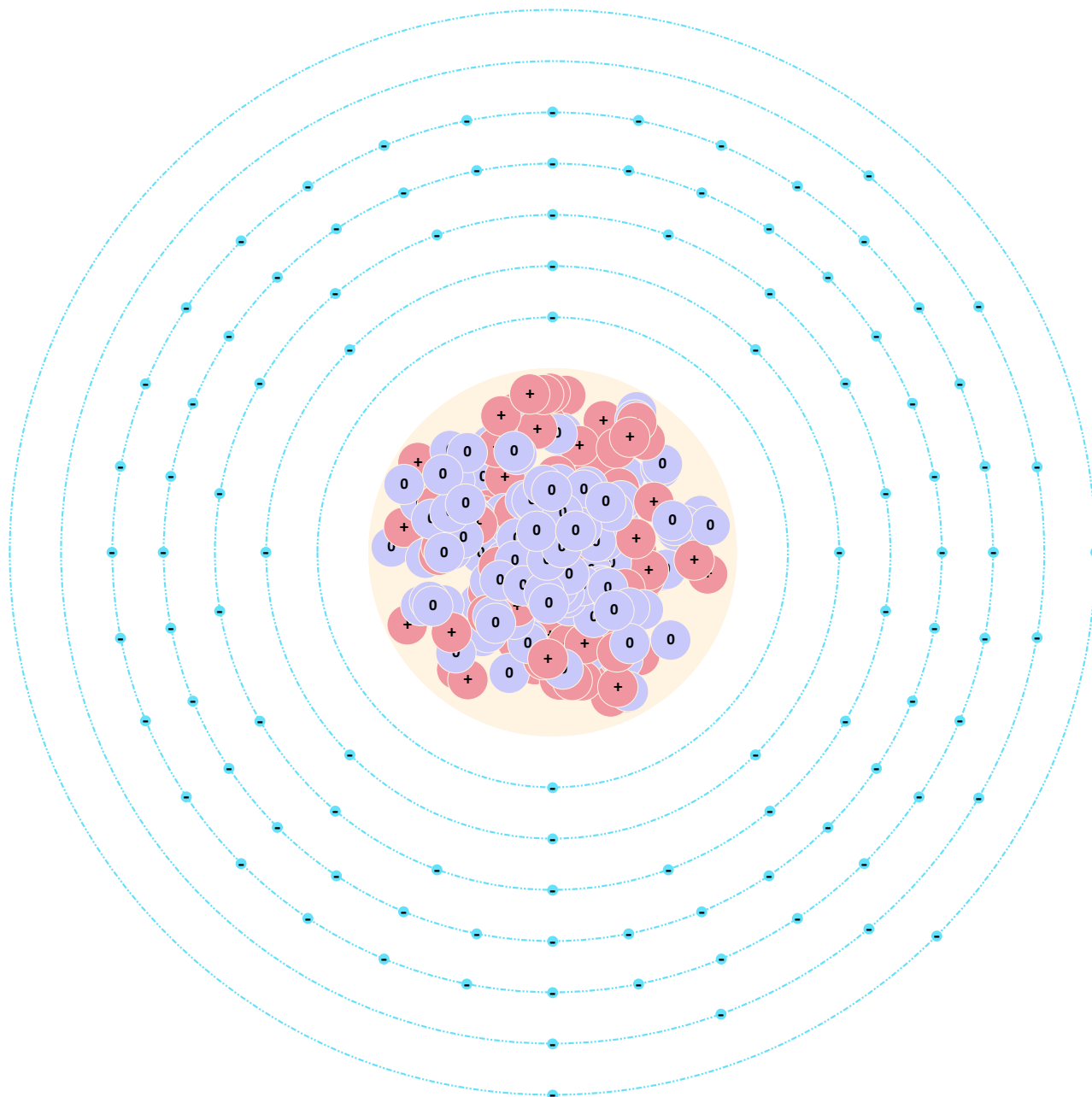
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Md</b>	101	258	<b>Mendelevium</b> Actinide Ac Actinium Group	[Rn]5f13 7s2 Synthesized, not stable	157



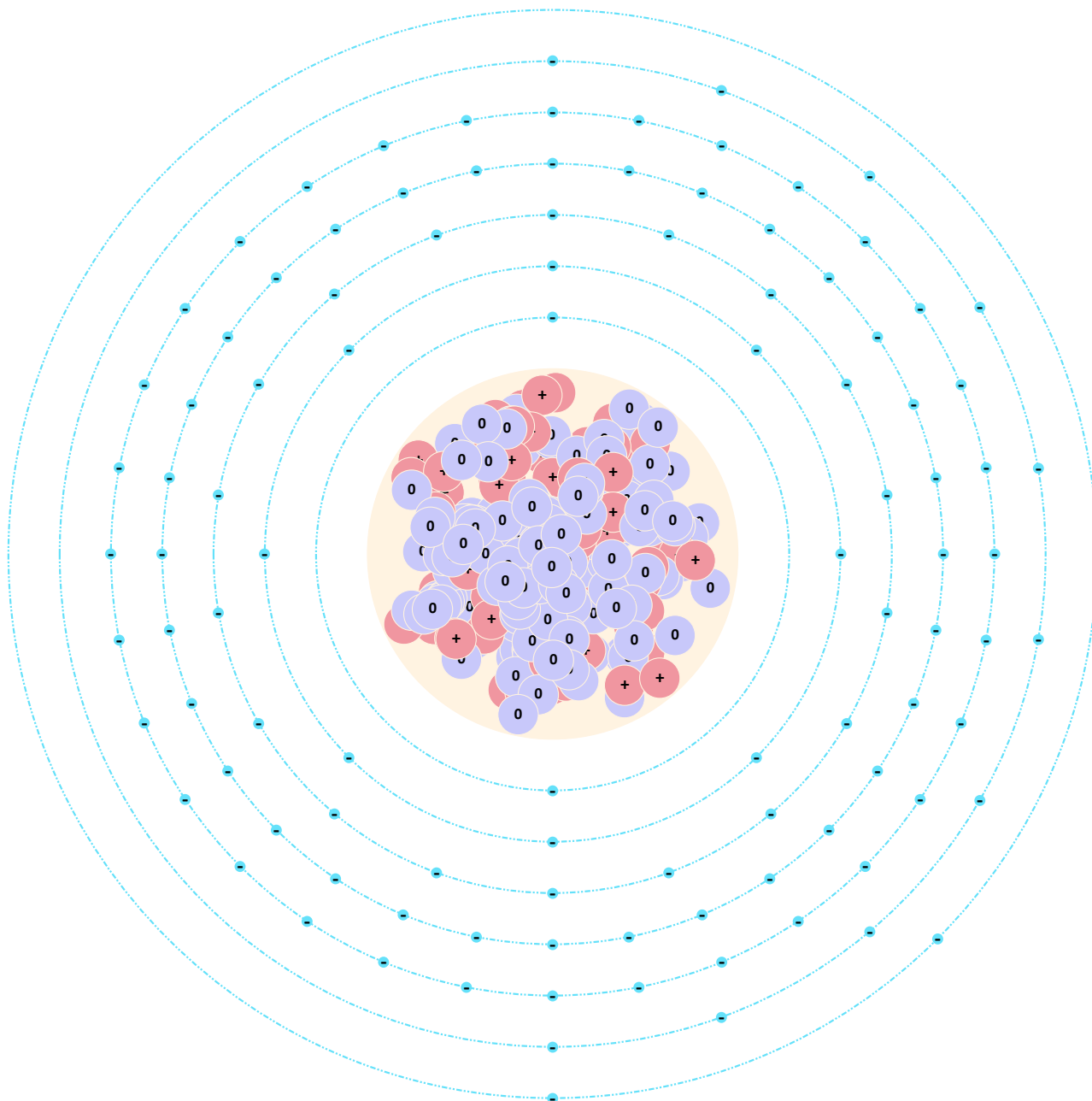
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>No</b>	102	259	<b>Nobelium</b> Actinide Ac Actinium Group	[Rn]5f14 7s2 Synthesized, not stable	157



Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Lr</b>	103	262	<b>Lawrencium</b> 3 Transition Metal 3 3B Scandium Group	[Rn]5f <sup>14</sup> 7s <sup>2</sup> 7p <sup>1</sup> Synthesized, not stable	159

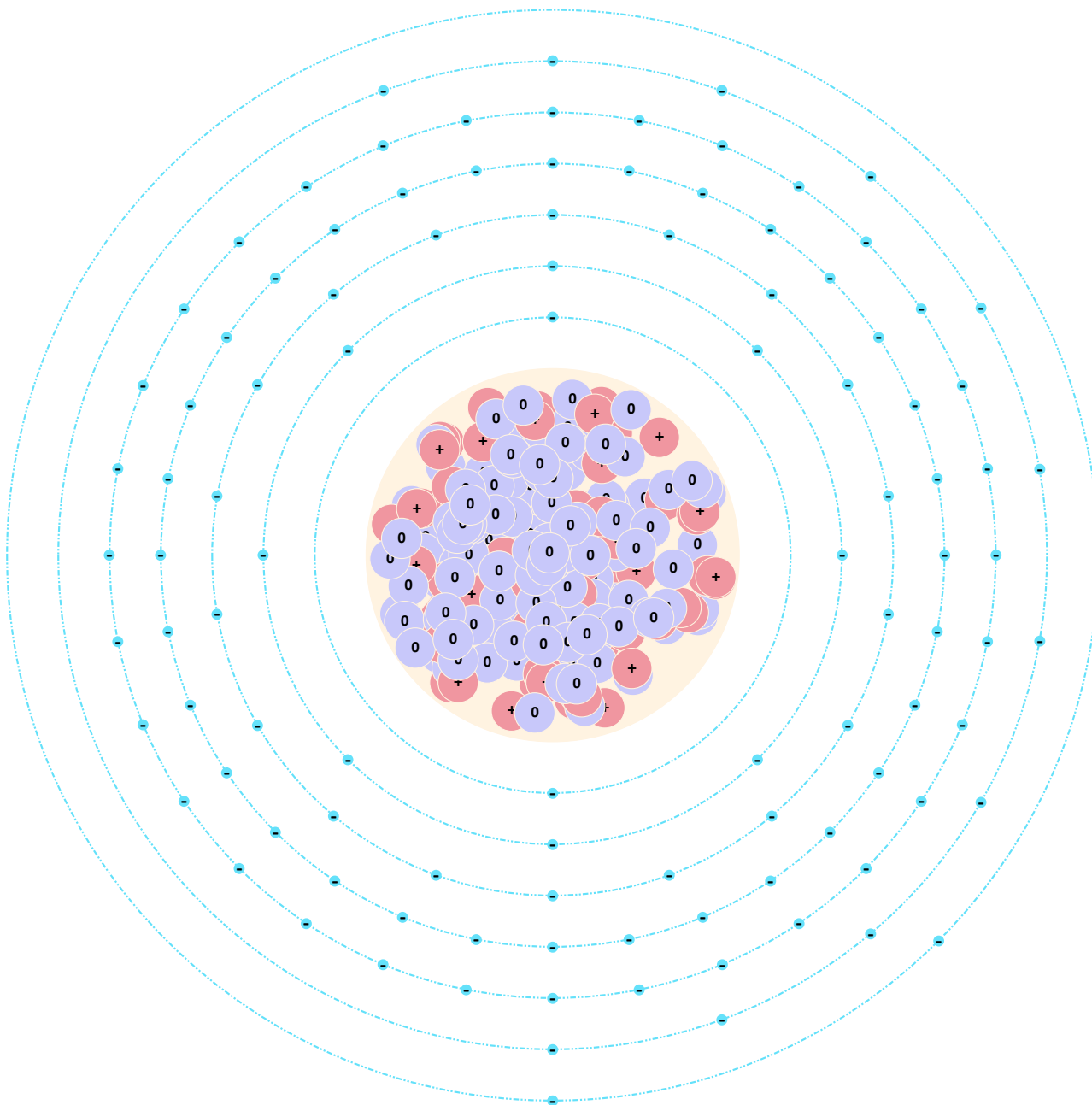


Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Rf</b>	104	261	<b>Rutherfordium</b> 4 Transition Metal 4 4B Titanium Group	[Rn]5f <sup>14</sup> 6d <sup>2</sup> 7s <sup>2</sup> Transition Metal	157

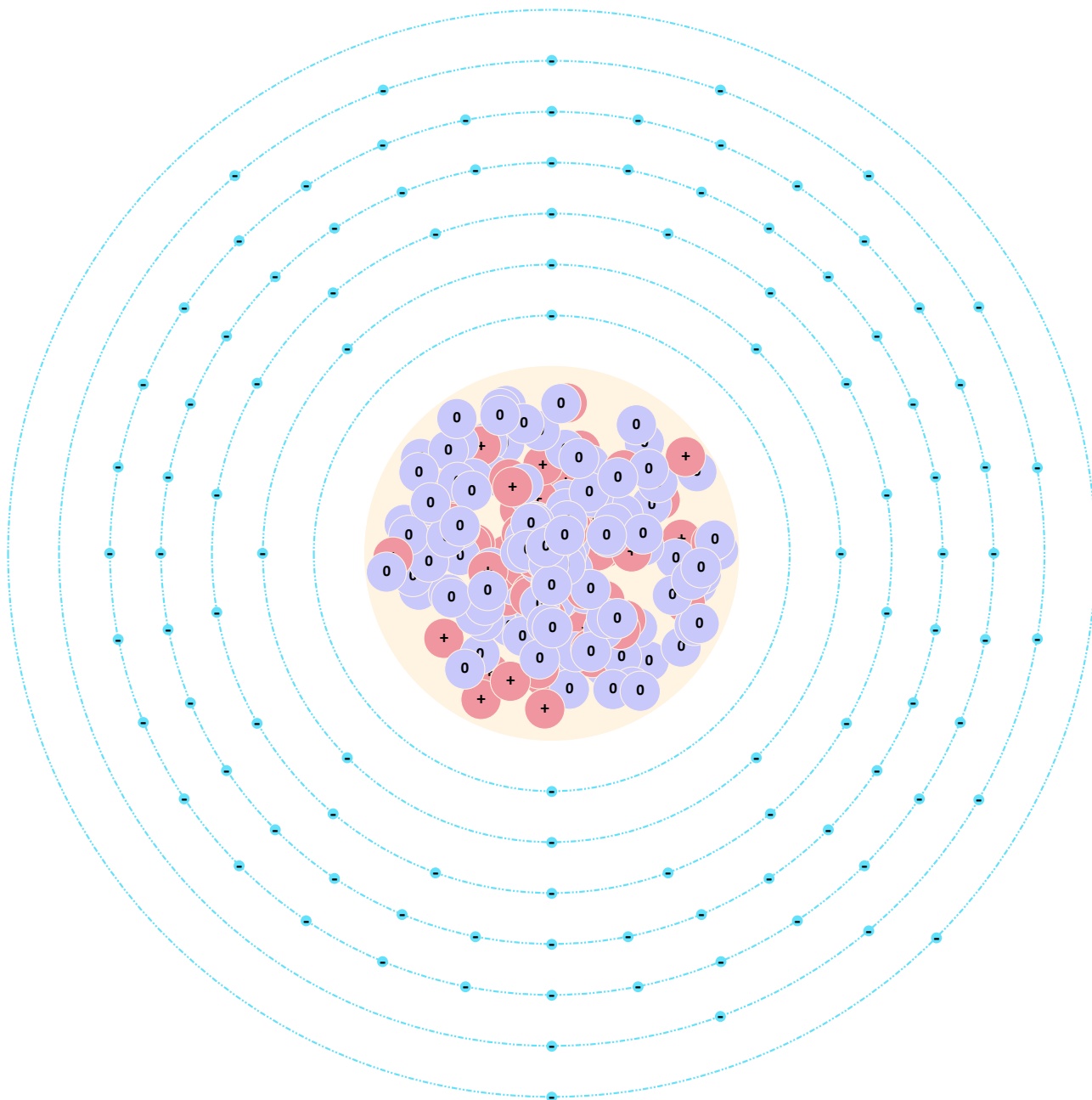




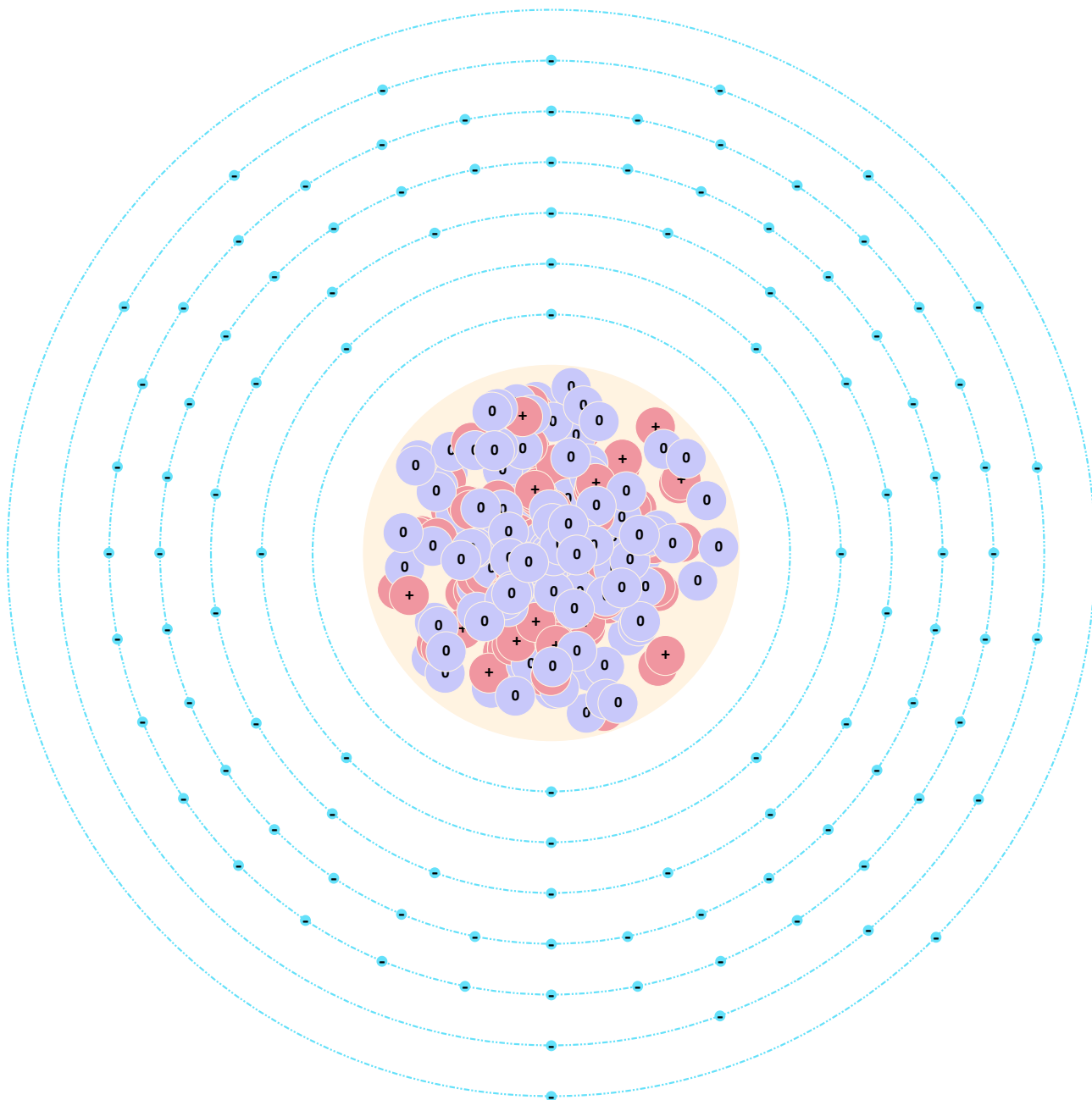
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Db</b>	105	262	<b>Dubnium</b> 5 Transition Metal 5 5B Vanadium Group	[Rn]5f14 6d3 7s2 Transition Metal	157



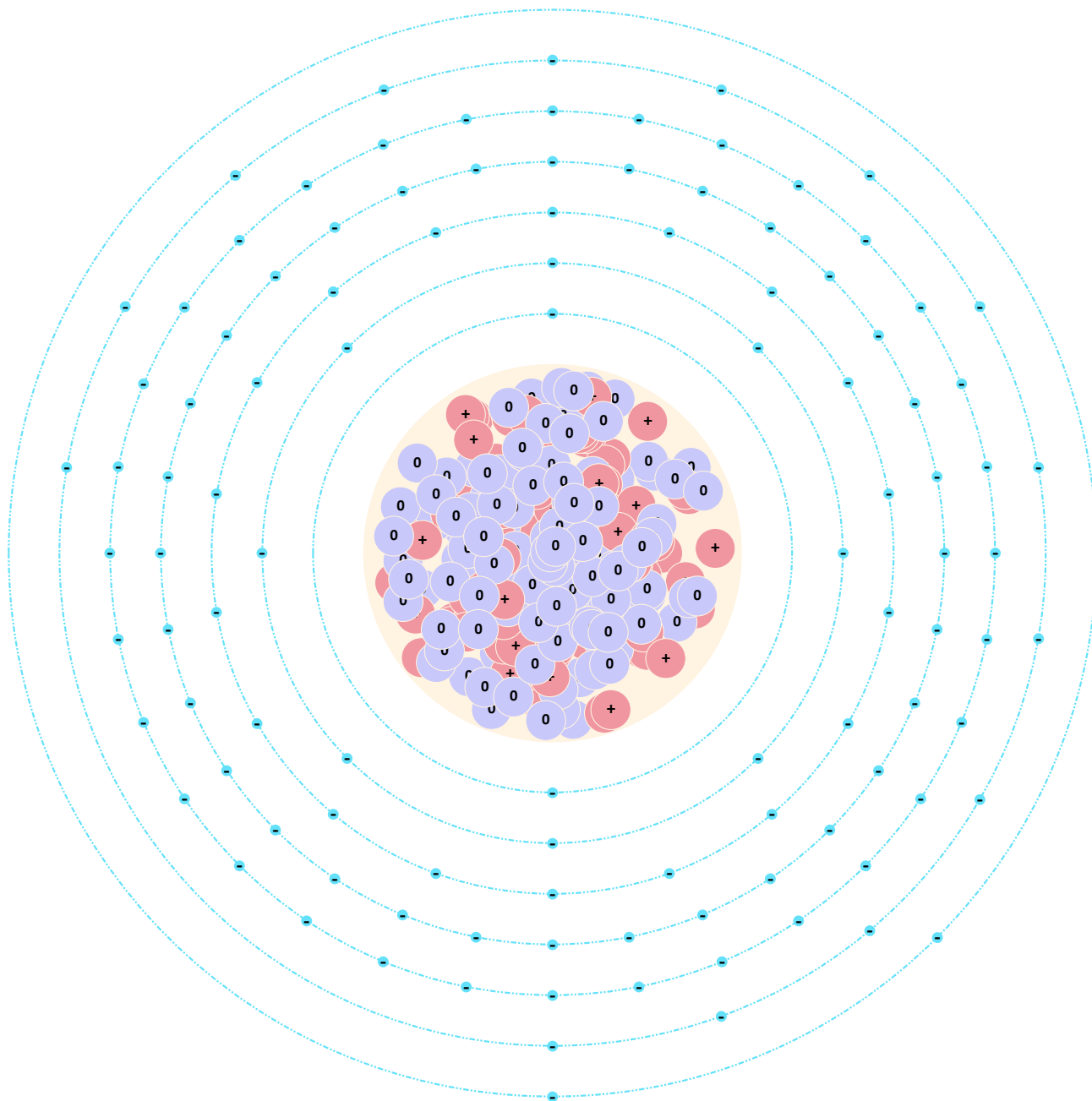
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Sg</b>	106	266	<b>Seaborgium</b>	[Rn]5f14 6d4 7s2	
	<i>Radioactive</i>		6 Transition Metal 6	Transition Metal	160
			6B Chromium Group		



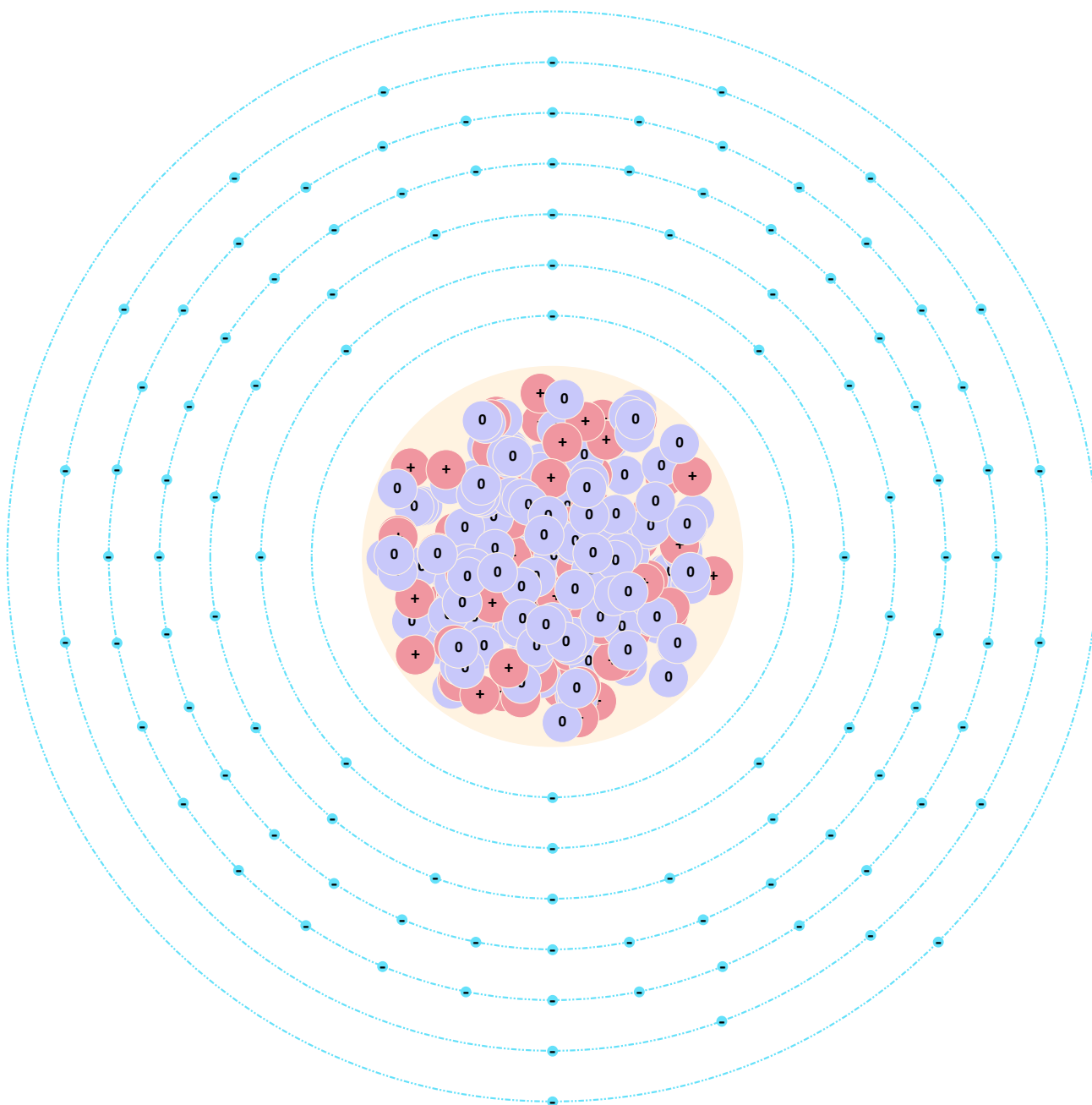
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Bh</b>	107	264 <i>Radioactive</i>	<b>Bohrium</b> 7 Transition Metal 7 7B Manganese Group	[Rn]5f14 6d5 7s2 Transition Metal	157



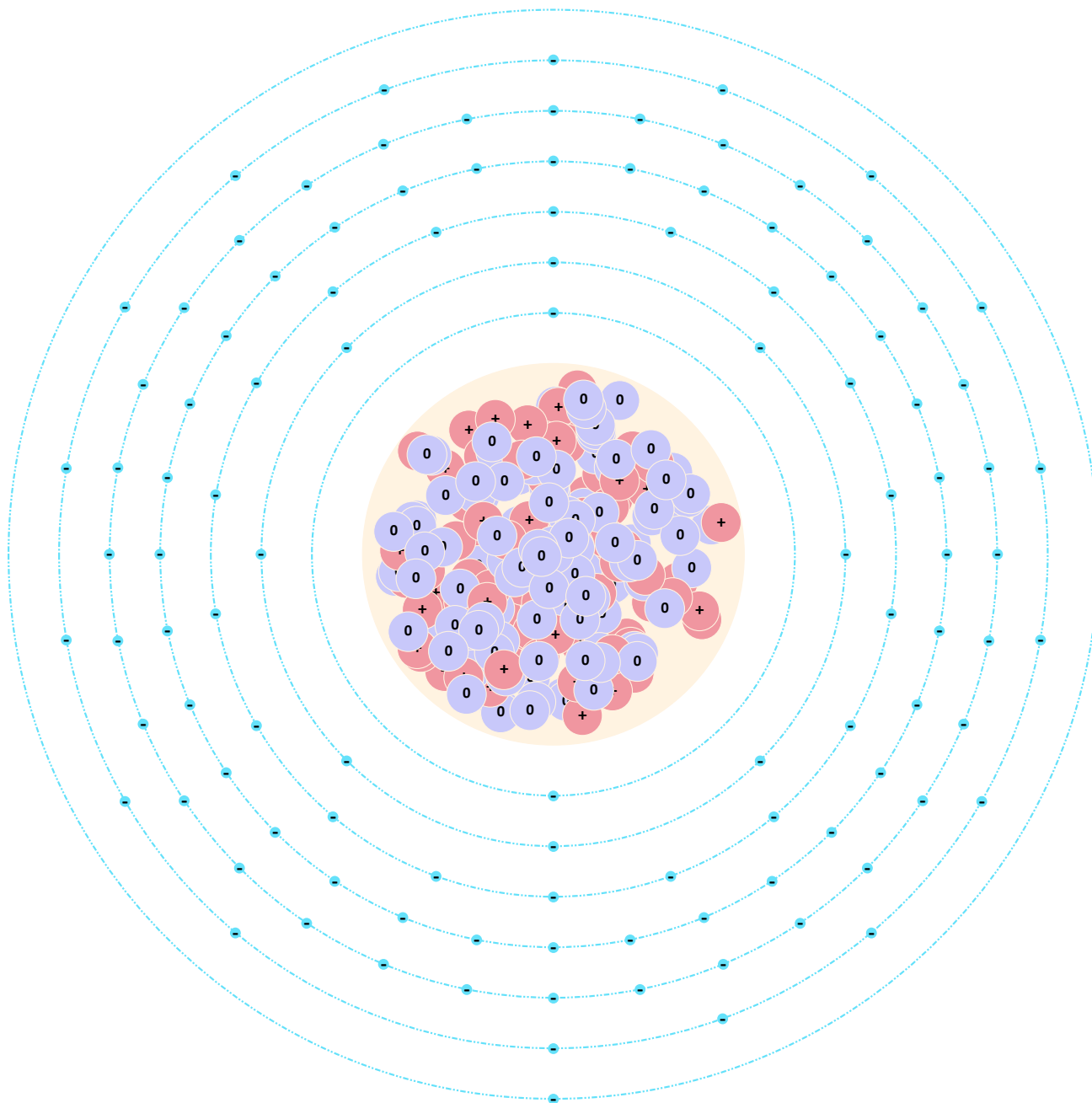
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Hs</b>	108	277	<b>Hassium</b> 8 Transition Metal 8 8B Iron Group	[Rn]5f14 6d6 7s2 Transition Metal	169



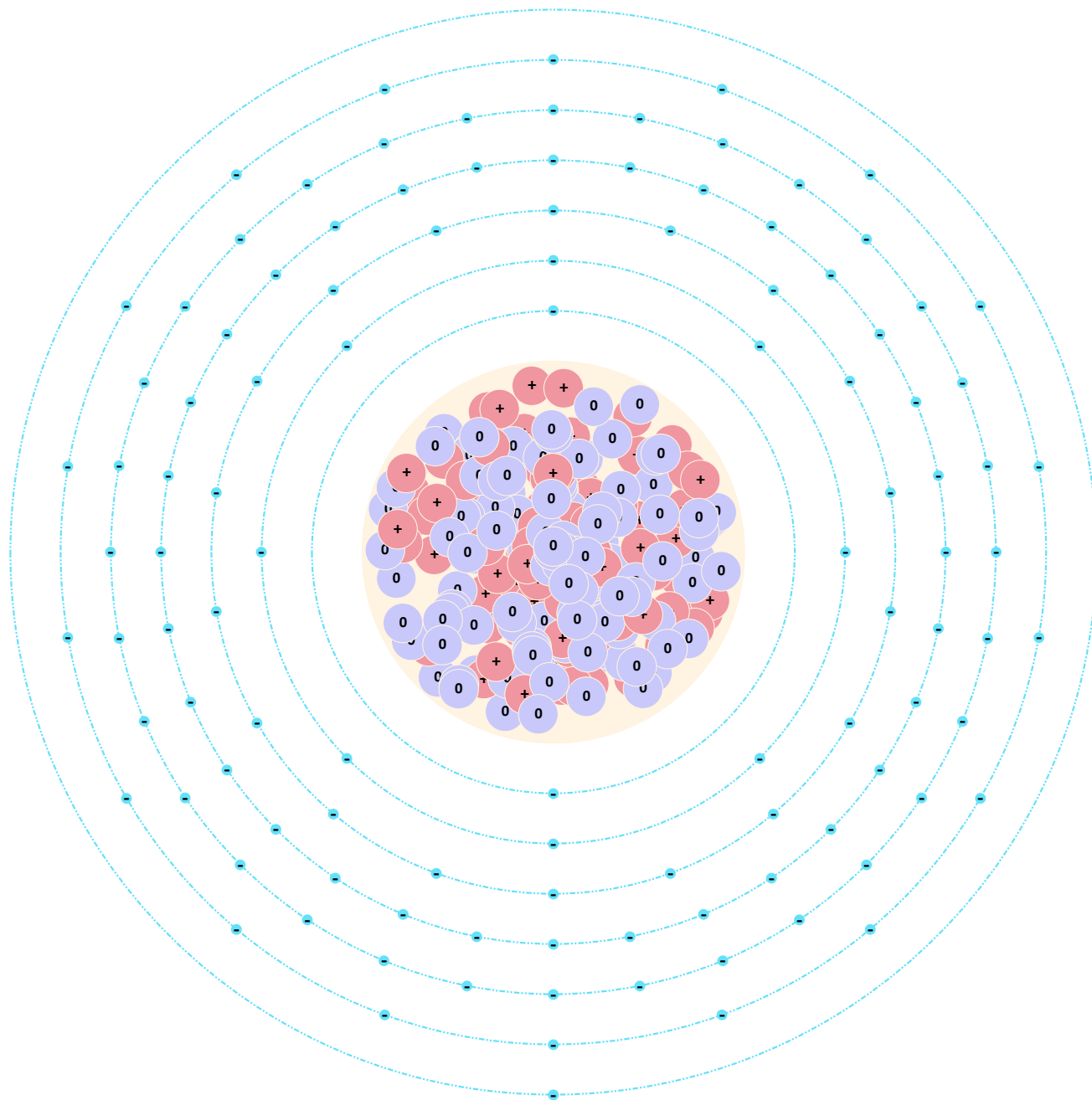
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Mt</b>	109	268	<b>Meitnerium</b>	[Rn]5f14 6d7 7s2	
	<i>Radioactive</i>		9 Transition Metal 8 (9)	Unknown	159
			8B Cobalt Group		



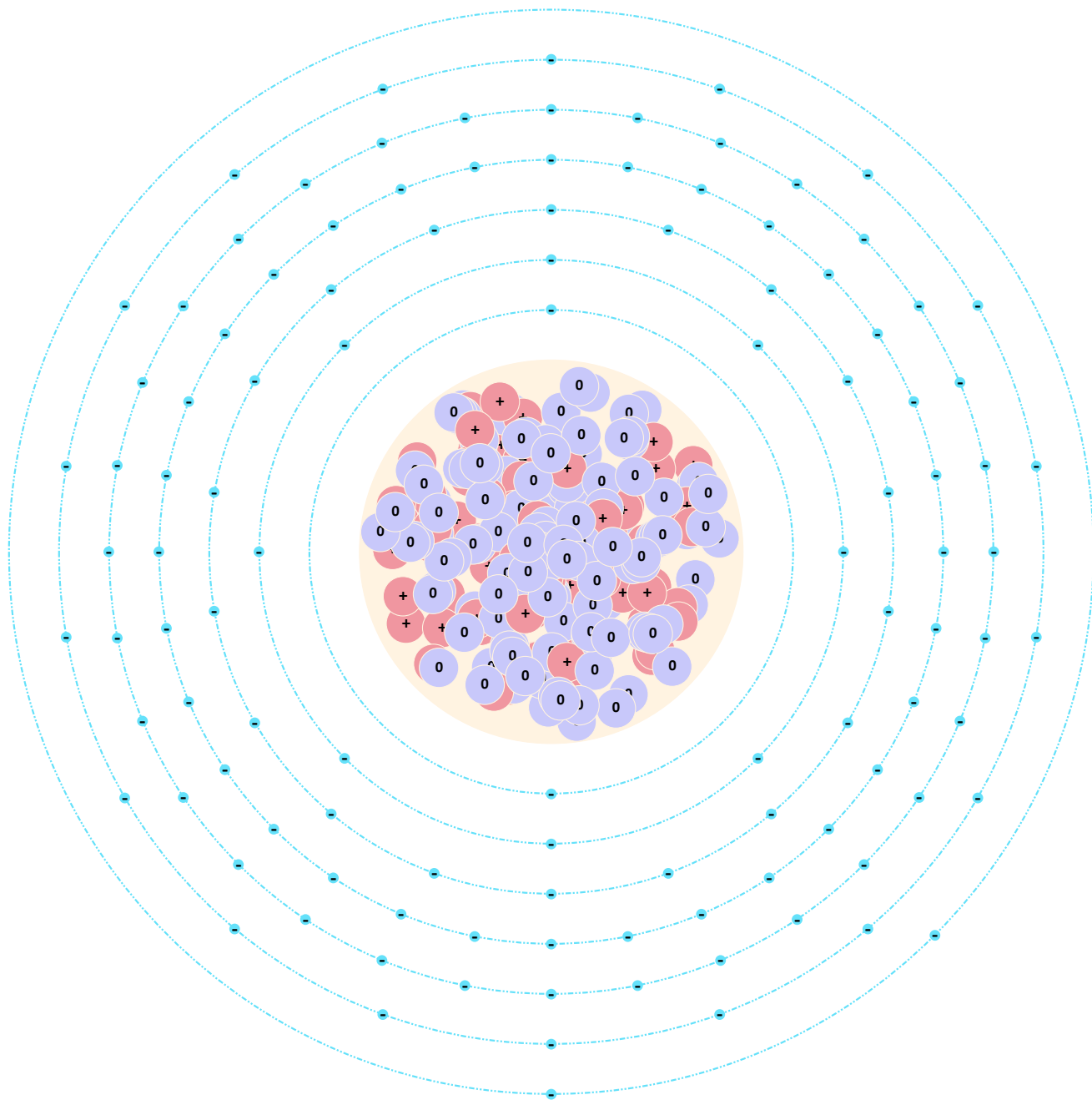
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Ds</b>	110	270	<b>Darmstadtium</b>	[Rn]5f14 6d9 7s1	
	<i>Radioactive</i>		10 Transition Metal 8 (10)	Unknown	160
			8B Nickel Group		



Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Rg</b>	111	272	<b>Roentgenium</b>	[Rn]5f14 6d10 7s1	
	<i>Radioactive</i>		11 Transition Metal (coins)	Unknown	161
			1B Copper Group		

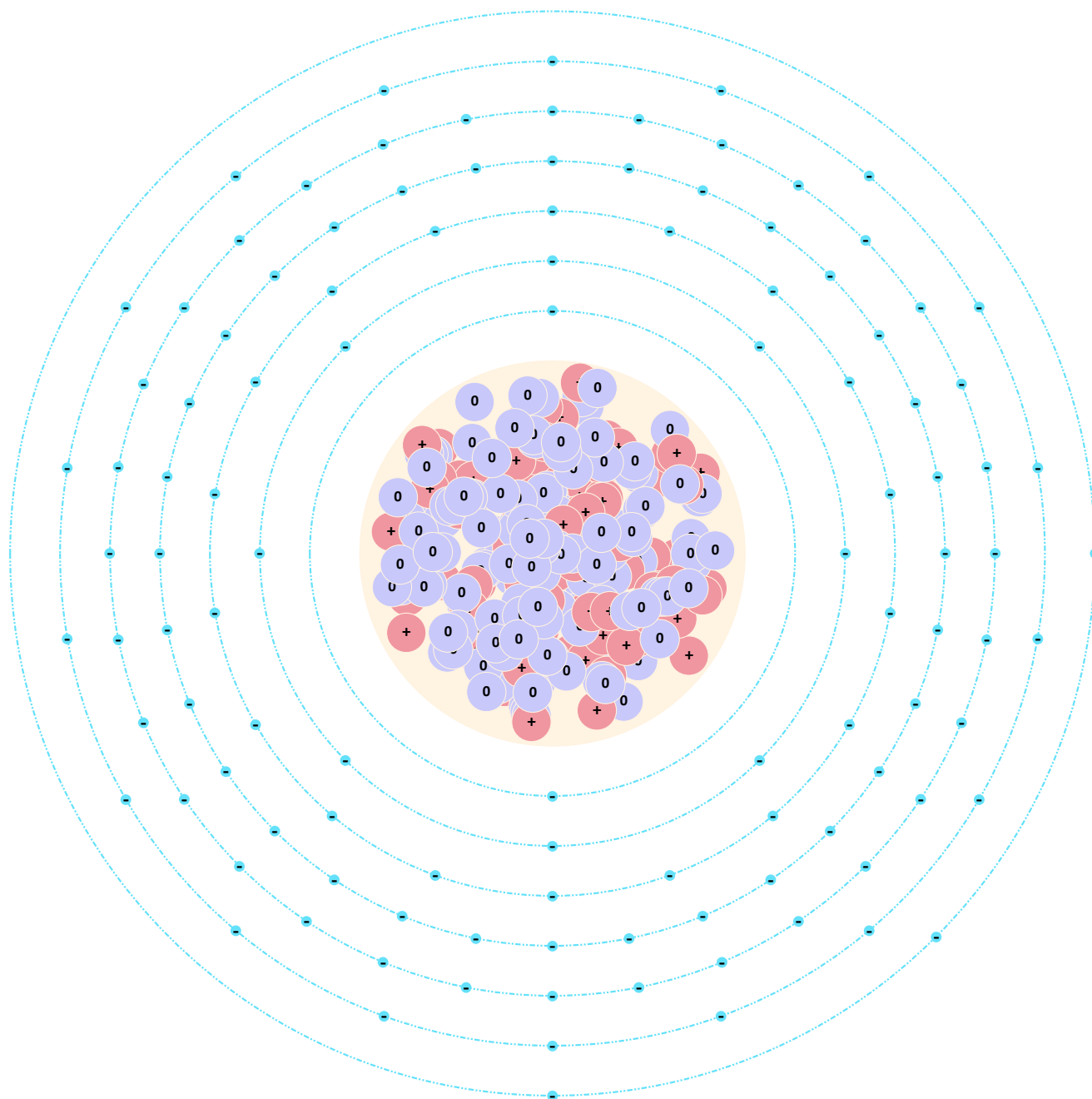


Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Cn</b>	112	284 <i>Radioactive</i>	<b>Copernicium</b> 12 Volatile Metal 2B Zinc Group	[Rn]5f14 6d10 7s2 Transition Metal	172

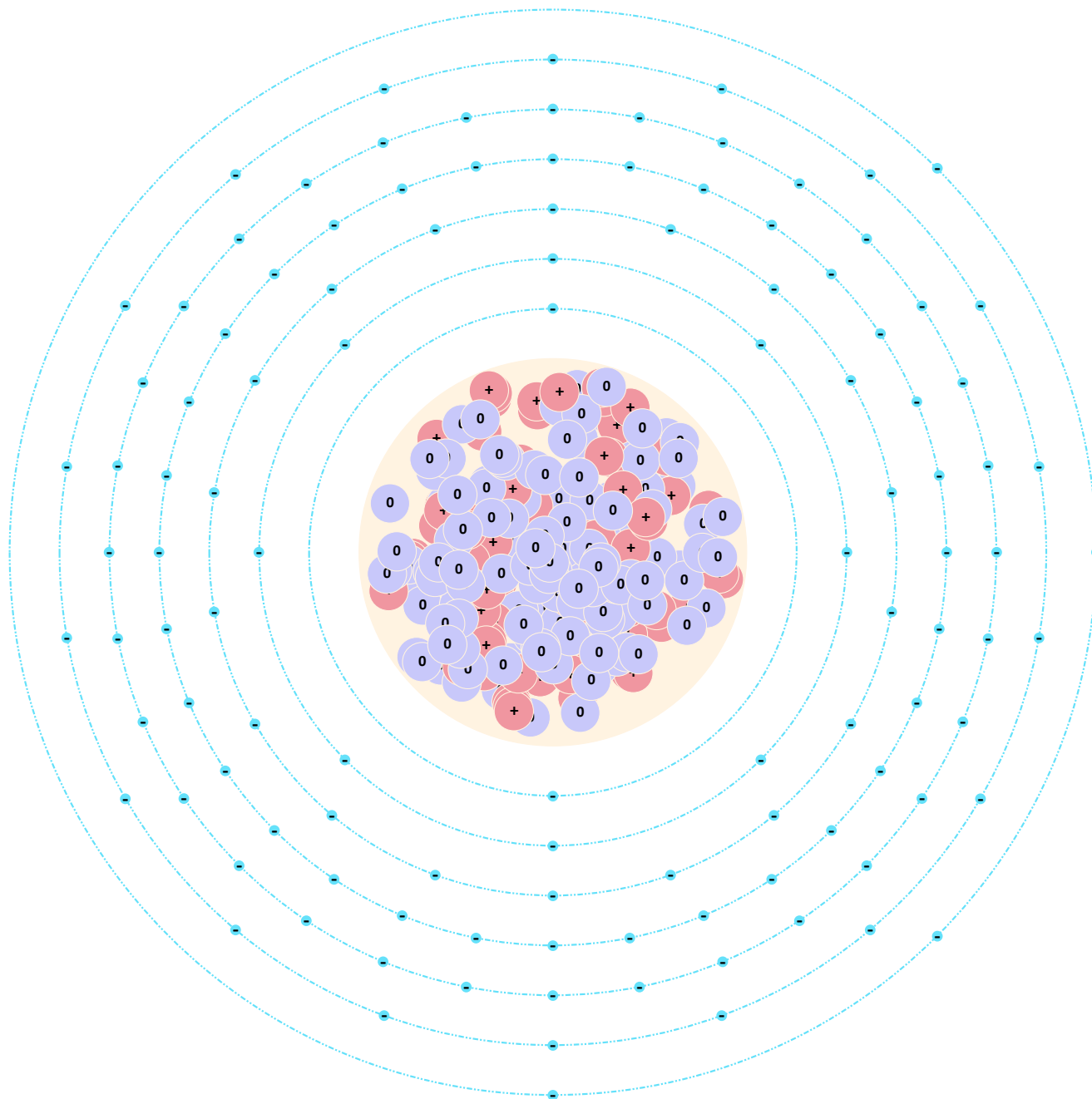




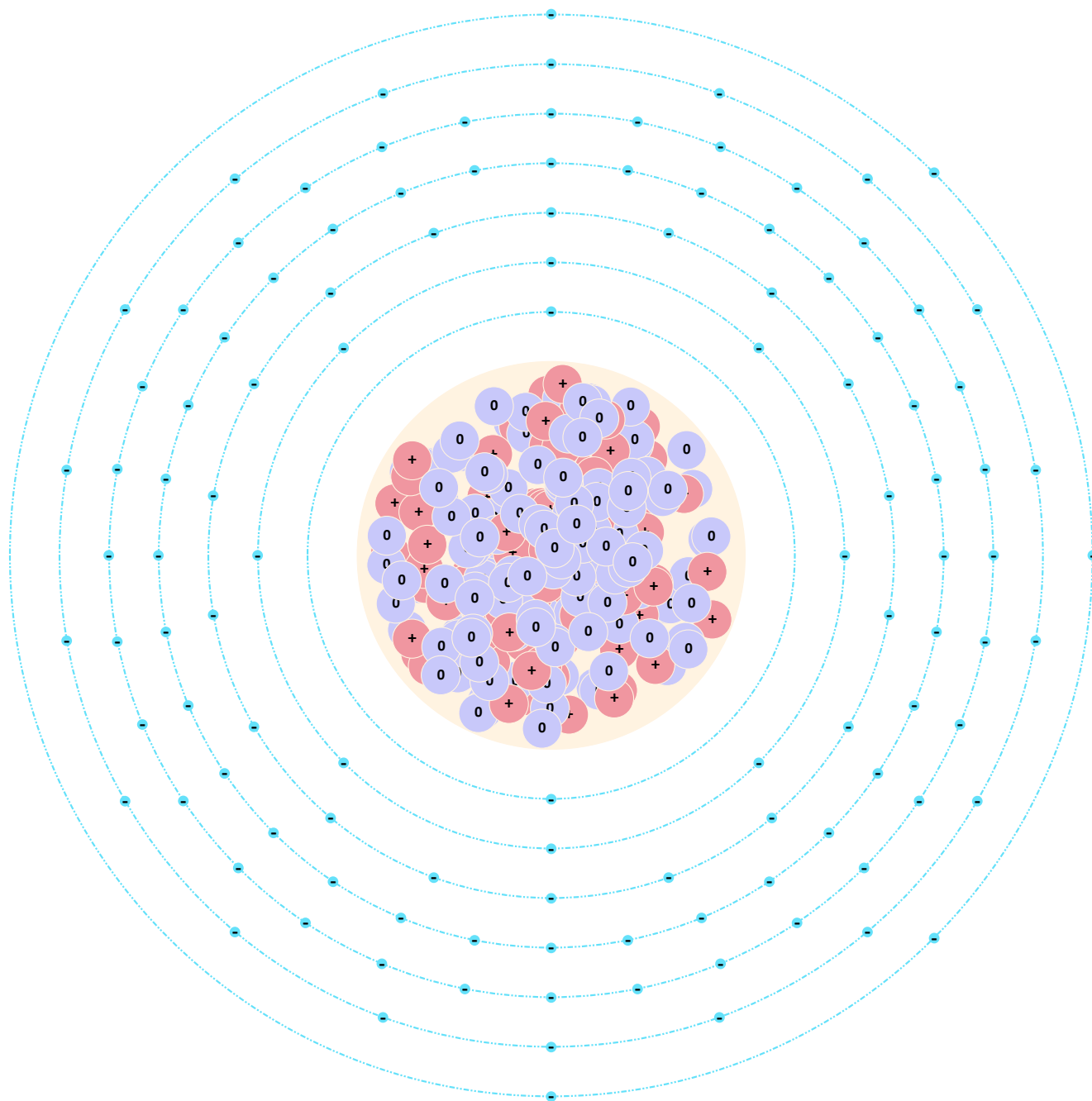
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Nh</b>	113	287	<b>Nihonium</b>	[Rn]5f14 6d10 7s2 7p1	
	<i>Radioactive</i>		13 Triel	Unknown	174
			3A Boron Group		



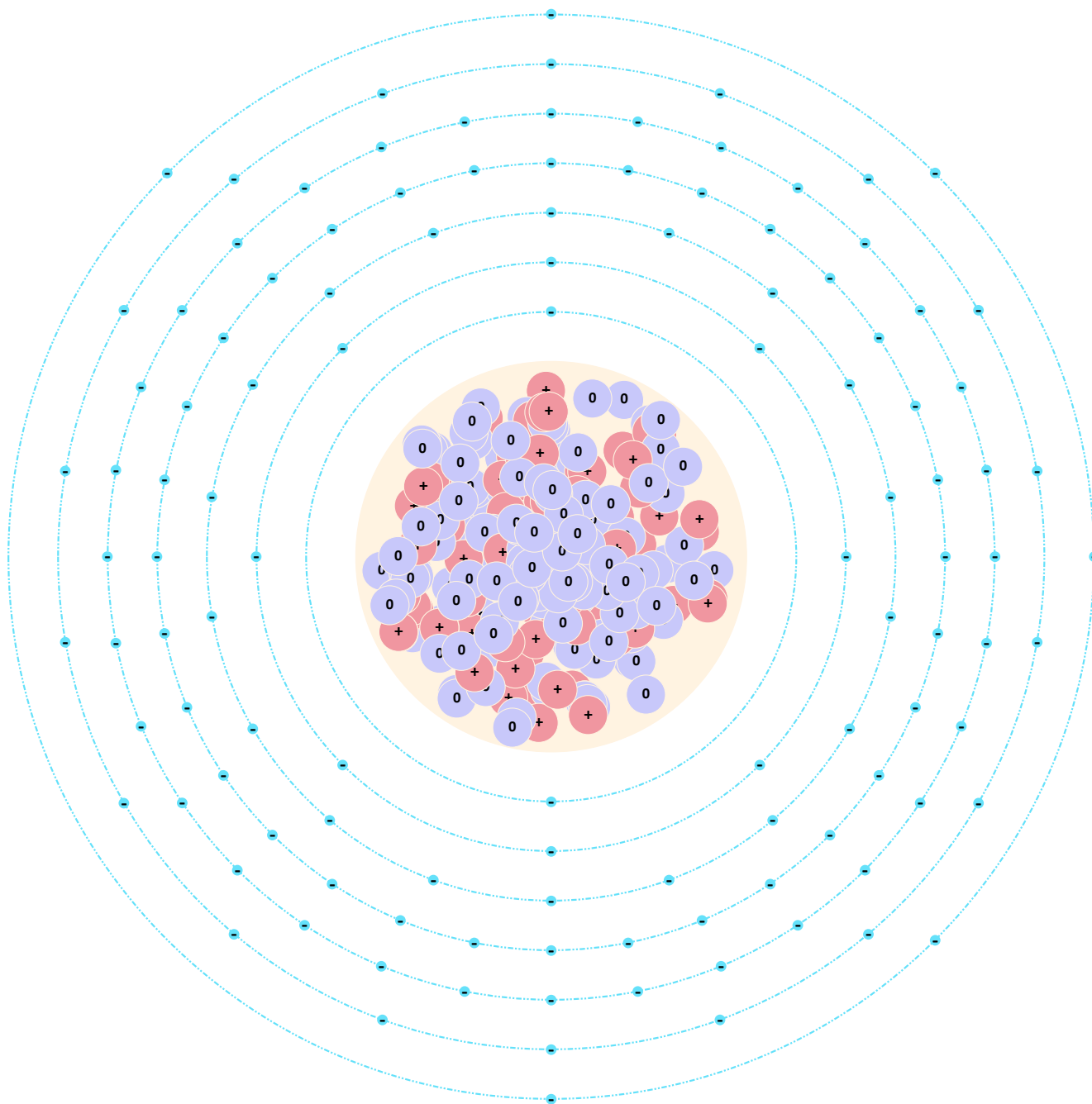
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Fl</b>	114	289	<b>Flerovium</b>	[Rn]5f14 6d10 7s2 7p2	
	<i>Radioactive</i>		14 Tetrrel	Unknown	175
			4A Carbon Group		



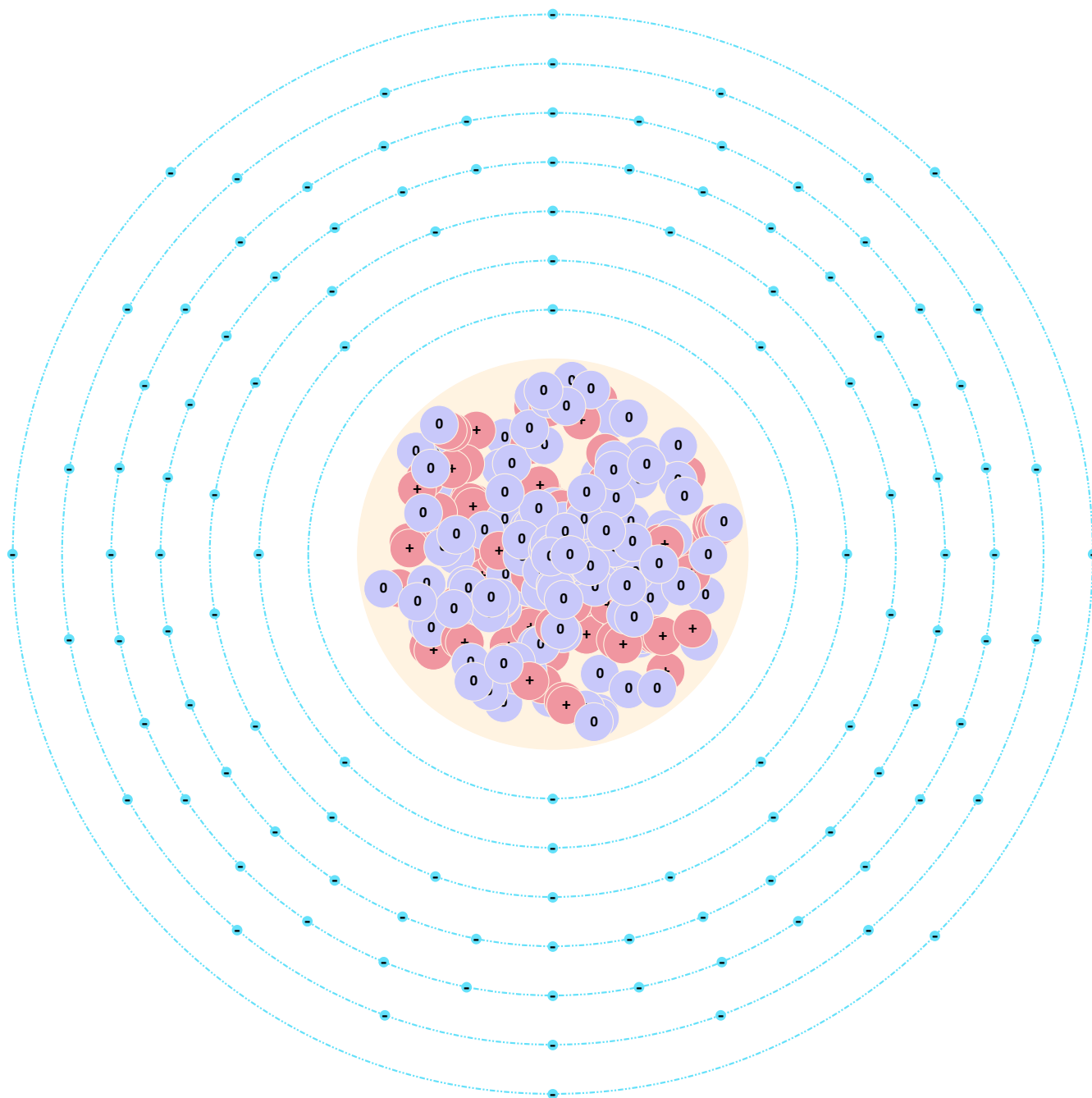
Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Mc</b>	115	290	<b>Moscovium</b> 15 Pnictogen 5A Nitrogen Group	[Rn]5f14 6d10 7s2 7p3 Unknown	175



Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Lv</b>	116	293	<b>Livermorium</b>	[Rn]5f14 6d10 7s2 7p4	
	<i>Radioactive</i>		16 Chalcogen	Unknown	177
			6A Oxygen Group		



Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Ts</b>	117	294	<b>Tennesine</b> 17 Halogen 7A Flourine Group	[Rn]5f14 6d10 7s2 7p5 Unknown	177



Symbol	Atomic #	Atomic Mass	Element / Group	Config/Classification/Nutrient	#Neutrons
<b>Og</b>	118	294	<b>Oganesson</b> 18 Noble Gas 8A Helium Group	[Rn]5f14 6d10 7s2 7p6 Unknown	176

*Radioactive*

