

# New Calculation of the Frequencies of Fundamental Particles (Proton, Electron, ...) and their Applications in the Universe

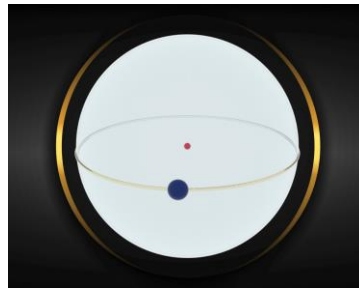
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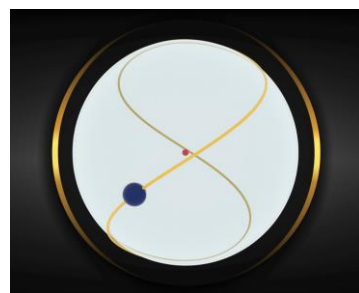
We consider an atom which has a central nucleus and electrons that orbit around it. The motion of electrons around the nucleus is an obvious and clear matter. However, since these electrons revolve around the nucleus, they possess repetitive motion and consequently have a periodic cycle with a specific velocity. Therefore, one can define a continuous closed curve for the motion of electrons around the nucleus which has a particular frequency and periodic cycle. Using the relationships below, one can obtain the frequency of different electrons.

In light of the previous articles, the electron's movement around the nucleus is a combination of several types of motions:

- I. **Planet-Like Motion:** The electron orbits around the nucleus like a planet. This is a simple motion, and Newtonian laws govern it.



- II. **Closed Helical Path Motion:** As previously stated, "each electron revolves around itself at a speed close to the speed of light." This motion causes curvature in the path of the solar motion of the electron, transforming its path around the nucleus into a closed helix. Note that this motion is a back-and-forth movement.



- III. **Spherical Motion Around the Nucleus:** Atomic nuclei carry a positive charge, while electrons carry a negative charge. It can be said that atomic nuclei affect electrons. On the other hand, atomic nuclei rotate around themselves at a speed close to the speed of light. This rotation causes an additional rotational motion to be added to the helical path of electron motion. Consequently, the electron is rotating around the nucleus and sweeping the entire surface of a sphere with an atomic radius.



### A. Calculating the Frequency of Electron of Hydrogen Atom

Given the helical path of electron motion around the nucleus, the frequency of its motion can be determined using the following equations and a straightforward method:

$$\text{Speed} = \frac{\text{Distance}}{\text{Time}} = \text{Distance} \times \text{Frequency}$$

So, in general, it can be said:

$$\text{Frequency} = \frac{\text{Linear Speed}}{\text{Linear Distance}} = \frac{\text{Wave - Like Speed}}{\text{Wave - Like Distance}} = \frac{\text{Helical Speed}}{\text{Helical Distance}}$$

Therefore, the frequency of a single electron in a hydrogen atom can be calculated as follows:

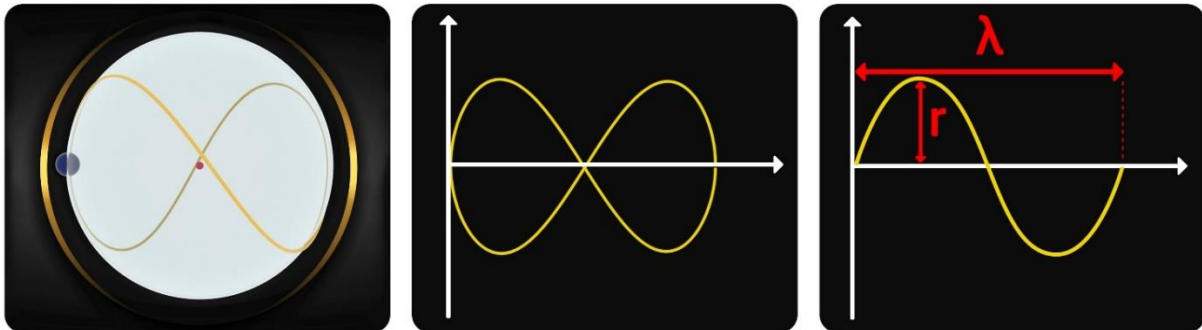
$$\left. \begin{array}{l} f_{e(H)} = \frac{C}{\lambda} \\ \lambda = 4r \end{array} \right\} \Rightarrow f_{e(H)} = \frac{C}{4r_H} = \frac{3 \times 10^8}{4 \times 1.1 \times 10^{-10}}$$

$$\Rightarrow f_{e(H)} = 6.82 \times 10^{17} \text{ Hz}$$

In this context,  $\lambda$  represents the wavelength,  $C$  is the speed of light, and  $f_{e(H)}$  denotes the frequency of the electron in the hydrogen atom. The parameter  $r_H$ , equivalent to the radius, corresponds to the atomic radius of hydrogen. As another illustrative example, let's calculate the electron frequency for the outermost layer of a **Gold** atom:

$$f_{e(AU)} = \frac{C}{4r_{AU}} = \frac{3 \times 10^8}{4 \times 1.66 \times 10^{-10}}$$

$$\Rightarrow f_{e(AU)} = 4.52 \times 10^{17} \text{ Hz}$$



On the other hand, in previous articles we have proved that atomic nuclei also rotate around themselves, and their rotation is an obvious and clear matter. Therefore, the path of motion of nuclei is also a continuous closed curve. Hence, this motion also possesses frequency.

### B. Calculating of the Frequency of Proton of Hydrogen Atom

It is quite clear that the Moon orbits around itself and around the Earth, which is itself rotating around its axis and around the Sun. The Sun, in turn, orbits around itself and around the central black hole of the Milky Way galaxy. The black hole is also in a state of rotation. Additionally, electrons orbit around themselves and around the nuclei of atoms. The nuclei, too, rotate around themselves at the speed of light. Therefore, one can write a repeatable sinusoidal equation for the rotation of a proton around itself:



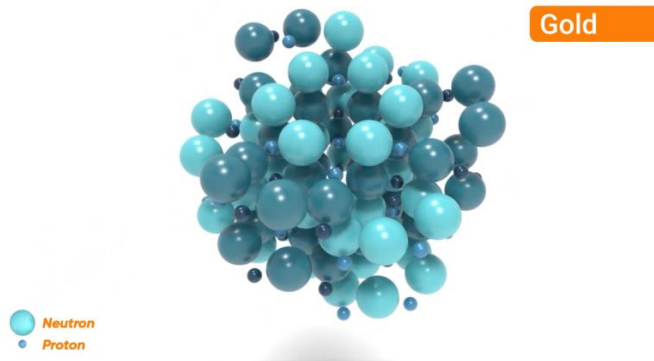
$$f_{p(H)} = \frac{C}{d} \Rightarrow f_{p(H)} = \frac{C}{2\pi r} = \frac{3 \times 10^8}{2\pi \times 1.20 \times 10^{-15}}$$

$$\Rightarrow f_{p(H)} = 3.98 \times 10^{22} \text{ Hz}$$

In which  $r$  is the radius, and  $f_{p(H)}$  is the frequency of proton of the hydrogen atom. Now, let's proceed to calculate the frequency of the atomic nucleus of Gold  $f_{p(AU)}$ :

$$f_{p(AU)} = \frac{C}{d} \Rightarrow f_{p(AU)} = \frac{C}{2\pi r} = \frac{3 \times 10^8}{2\pi \times 6.49 \times 10^{-15}}$$

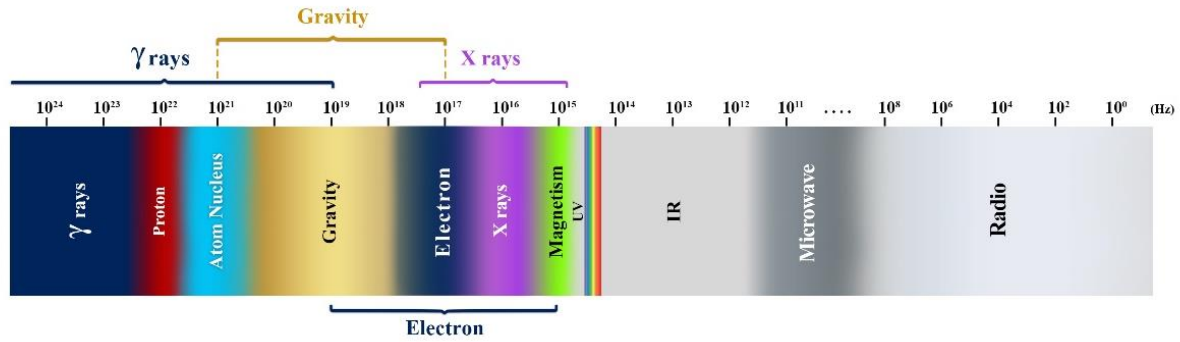
$$\Rightarrow f_{p(AU)} = 7.36 \times 10^{21} \text{ Hz}$$



## Saleh Comprehensive Frequency Table

Saleh Comprehensive Frequency Table																		19 VIIIA																		
GROUP 1 IA																		2 IIA																		
1	H Hydrogen 1 1.00794 6.82E+17 3.98E+22																	He Helium 2 4.002602 2.97E+22																		
	3 Li Lithium 6.941 182 2.18 4.12E+17 3.30E+17 1.42E+22		4 Be Beryllium 9.012182 153 2.4 4.90E+17 1.99E+22																5 B Boron 10.811 192 2.55 3.91E+17 1.85E+22		6 C Carbon 12.0107 170 2.59 4.41E+17 1.74E+22		7 N Nitrogen 14.0064 152 2.89 4.84E+17 1.65E+22		8 O Oxygen 15.9994 147 3.44 4.93E+17 1.58E+22		9 F Fluorine 18.9984032 147 3.14 5.10E+17 1.52E+22		10 Ne Neon 20.1798 154 3.46 4.87E+17 1.47E+22							
2	11 Na Sodium 22.98976928 227 3.36 3.30E+17 1.42E+22		12 Mg Magnesium 24.304 173 3.44 4.34E+17 1.38E+22																13 Al Aluminum 26.9815385 154 3.55 4.08E+17 1.34E+22		14 Si Silicon 28.08558 210 3.73 3.97E+17 1.31E+22		15 P Phosphorus 30.973761998 231 3.81 4.17E+17 1.28E+22		16 S Sulfur 32.06 231 3.81 4.17E+17 1.28E+22		17 Cl Chlorine 35.453 231 3.81 4.26E+17 1.23E+22		18 Ar Argon 39.948 231 3.81 4.26E+17 1.23E+22							
	19 K Potassium 39.0983 239 4.1 2.70E+17 1.19E+22		20 Ca Calcium 40.078 239 4.1 2.28E+17 1.18E+22		21 Sc Scandium 44.955912 239 4.1 2.28E+17 1.15E+22		22 Ti Titanium 47.867 239 4.1 2.28E+17 1.15E+22		23 V Vanadium 50.9415 239 4.1 2.28E+17 1.15E+22		24 Cr Chromium 51.9961 239 4.1 2.28E+17 1.15E+22		25 Mn Manganese 54.938044 239 4.1 2.28E+17 1.15E+22		26 Fe Iron 55.845 239 4.1 2.28E+17 1.15E+22		27 Co Cobalt 58.933194 239 4.1 2.28E+17 1.15E+22		28 Ni Nickel 58.6934 239 4.1 2.28E+17 1.15E+22		29 Cu Copper 63.546 239 4.1 2.28E+17 1.15E+22		30 Zn Zinc 65.38 239 4.1 2.28E+17 1.15E+22		31 Ga Gallium 69.723 239 4.1 2.28E+17 1.15E+22		32 Ge Germanium 72.64 239 4.1 2.28E+17 1.15E+22		33 As Arsenic 74.921595 239 4.1 2.28E+17 1.15E+22		34 Se Selenium 78.96 239 4.1 2.28E+17 1.15E+22		35 Br Bromine 79.904 239 4.1 2.28E+17 1.15E+22		36 Kr Krypton 83.798 239 4.1 2.28E+17 1.15E+22	
3	37 Rb Rubidium 85.4678 349 5.08 2.40E+17 1.04E+22		38 Sr Strontium 87.62 349 5.08 2.40E+17 1.04E+22		39 Y Yttrium 88.905848 219 5.13 2.40E+17 1.04E+22		40 Zr Zirconium 91.224 219 5.13 2.40E+17 1.04E+22		41 Nb Niobium 92.90638 198 5.21 2.40E+17 1.04E+22		42 Mo Molybdenum 95.94 198 5.21 2.40E+17 1.04E+22		43 Tc Technetium 98.90625 198 5.21 2.40E+17 1.04E+22		44 Ru Ruthenium 101.07 198 5.21 2.40E+17 1.04E+22		45 Rh Rhodium 102.90550 198 5.21 2.40E+17 1.04E+22		46 Pd Palladium 106.42 198 5.21 2.40E+17 1.04E+22		47 Ag Silver 107.8682 198 5.21 2.40E+17 1.04E+22		48 Cd Cadmium 112.411 198 5.21 2.40E+17 1.04E+22		49 In Indium 114.818 198 5.21 2.40E+17 1.04E+22		50 Sn Tin 118.710 198 5.21 2.40E+17 1.04E+22		51 Sb Antimony 121.757 198 5.21 2.40E+17 1.04E+22		52 Te Tellurium 127.60 198 5.21 2.40E+17 1.04E+22		53 I Iodine 126.90447 198 5.21 2.40E+17 1.04E+22		54 Xe Xenon 131.29 198 5.21 2.40E+17 1.04E+22	
	55 Cs Cesium 132.90545 349 5.75 2.10E+17 0.91E+22		56 Ba Barium 137.327 349 5.75 2.10E+17 0.91E+22		57 La Lanthanum 138.90547 349 5.75 2.10E+17 0.91E+22		58 Ce Cerium 140.116 349 5.75 2.10E+17 0.91E+22		59 Pr Praseodymium 140.90768 349 5.75 2.10E+17 0.91E+22		60 Nd Neodymium 144.242 349 5.75 2.10E+17 0.91E+22		61 Pm Promethium 144.9127 349 5.75 2.10E+17 0.91E+22		62 Sm Samarium 150.36 349 5.75 2.10E+17 0.91E+22		63 Eu Europium 151.964 349 5.75 2.10E+17 0.91E+22		64 Gd Gadolinium 157.25 349 5.75 2.10E+17 0.91E+22		65 Tb Terbium 158.92534 349 5.75 2.10E+17 0.91E+22		66 Dy Dysprosium 162.50087 349 5.75 2.10E+17 0.91E+22		67 Ho Holmium 164.93032 349 5.75 2.10E+17 0.91E+22		68 Er Erbium 167.259 349 5.75 2.10E+17 0.91E+22		69 Tm Thulium 168.93421 349 5.75 2.10E+17 0.91E+22		70 Yb Ytterbium 173.05471 349 5.75 2.10E+17 0.91E+22		71 Lu Lutetium 174.967 349 5.75 2.10E+17 0.91E+22			
4	87 Fr Francium 223 349 6.7 2.10E+17 0.91E+22		88 Ra Radium 226 349 6.7 2.10E+17 0.91E+22		89 Ac Actinium 227 349 6.7 2.10E+17 0.91E+22		90 Th Thorium 232.0377 349 6.7 2.10E+17 0.91E+22		91 Pa Protactinium 231.03688 349 6.7 2.10E+17 0.91E+22		92 U Uranium 238.02891 349 6.7 2.10E+17 0.91E+22		93 Np Neptunium 237.04817 349 6.7 2.10E+17 0.91E+22		94 Pu Plutonium 244.0642 349 6.7 2.10E+17 0.91E+22		95 Am Americium 243.06136 349 6.7 2.10E+17 0.91E+22		96 Cm Curium 247.07036 349 6.7 2.10E+17 0.91E+22		97 Bk Berkelium 247.07036 349 6.7 2.10E+17 0.91E+22		98 Cf Californium 251.0832 349 6.7 2.10E+17 0.91E+22		99 Es Einsteinium 252.0832 349 6.7 2.10E+17 0.91E+22		100 Fm Fermium 257.1037 349 6.7 2.10E+17 0.91E+22		101 Md Mendelevium 258.1037 349 6.7 2.10E+17 0.91E+22		102 No Nobelium 259.1037 349 6.7 2.10E+17 0.91E+22		103 Lr Lawrencium 262.1037 349 6.7 2.10E+17 0.91E+22			
	104 La Lanthanum 138.90547 349 5.75 2.10E+17 0.91E+22		105 Ce Cerium 140.116 349 5.75 2.10E+17 0.91E+22		106 Pr Praseodymium 140.90768 349 5.75 2.10E+17 0.91E+22		107 Nd Neodymium 144.242 349 5.75 2.10E+17 0.91E+22		108 Pm Promethium 144.9127 349 5.75 2.10E+17 0.91E+22		109 Sm Samarium 150.36 349 5.75 2.10E+17 0.91E+22		110 Eu Europium 151.964 349 5.75 2.10E+17 0.91E+22		111 Gd Gadolinium 157.25 349 5.75 2.10E+17 0.91E+22		112 Tb Terbium 158.92534 349 5.75 2.10E+17 0.91E+22		113 Dy Dysprosium 162.50087 349 5.75 2.10E+17 0.91E+22		114 Ho Holmium 164.93032 349 5.75 2.10E+17 0.91E+22		115 Er Erbium 167.259 349 5.75 2.10E+17 0.91E+22		116 Tm Thulium 168.93421 349 5.75 2.10E+17 0.91E+22		117 Yb Ytterbium 173.05471 349 5.75 2.10E+17 0.91E+22		118 Lu Lutetium 174.967 349 5.75 2.10E+17 0.91E+22							
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6	104 La Lanthanum 138.90547 349 5.75 2.10E+17 0.91E+22		105 Ce Cerium 140.116 349 5.75 2.10E+17 0.91E+22		106 Pr Praseodymium 140.90768 349 5.75 2.10E+17 0.91E+22		107 Nd Neodymium 144.242 349 5.75 2.10E+17 0.91E+22		108 Pm Promethium 144.9127 349 5.75 2.10E+17 0.91E+22		109 Sm Samarium 150.36 349 5.75 2.10E+17 0.91E+22		110 Eu Europium 151.964 349 5.75 2.10E+17 0.91E+22		111 Gd Gadolinium 157.25 349 5.75 2.10E+17 0.91E+22		112 Tb Terbium 158.92534 349 5.75 2.10E+17 0.91E+22		113 Dy Dysprosium 162.50087 349 5.75 2.10E+17 0.91E+22		114 Ho Holmium 164.93032 349 5.75 2.10E+17 0.91E+22		115 Er Erbium 167.259 349 5.75 2.10E+17 0.91E+22		116 Tm Thulium 168.93421 349 5.75 2.10E+17 0.91E+22		117 Yb Ytterbium 173.05471 349 5.75 2.10E+17 0.91E+22		118 Lu Lutetium 174.967 349 5.75 2.10E+17 0.91E+22							
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7	104 La Lanthanum 138.90547 349 5.75 2.10E+17 0.91E+22		105 Ce Cerium 140.116 349 5.75 2.10E+17 0.91E+22		106 Pr Praseodymium 140.90768 349 5.75 2.10E+17 0.91E+22		107 Nd Neodymium 144.242 349 5.75 2.10E+17 0.91E+22		108 Pm Promethium 144.9127 349 5.75 2.10E+17 0.91E+22		109 Sm Samarium 150.36 349 5.75 2.10E+17 0.91E+22		110 Eu Europium 151.964 349 5.75 2.10E+17 0.91E+22		111 Gd Gadolinium 157.25 349 5.75 2.10E+17 0.91E+22		112 Tb Terbium 158.92534 349 5.75 2.10E+17 0.91E+22		113 Dy Dysprosium 162.50087 349 5.75 2.10E+17 0.91E+22		114 Ho Holmium 164.93032 349 5.75 2.10E+17 0.91E+22		115 Er Erbium 167.259 349 5.75 2.10E+17 0.91E+22		116 Tm Thulium 168.93421 349 5.75 2.10E+17 0.91E+22		117 Yb Ytterbium 173.05471 349 5.75 2.10E+17 0.91E+22		118 Lu Lutetium 174.967 349 5.75 2.10E+17 0.91E+22							
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8	104 La Lanthanum 138.90547 349 5.75 2.10E+17 0.91E+22		105 Ce Cerium 140.116 349 5.75 2.10E+17 0.91E+22		106 Pr Praseodymium 140.90768 349 5.75 2.10E+17 0.91E+22		107 Nd Neodymium 144.242 349 5.75 2.10E+17 0.91E+22		108 Pm Promethium 144.9127 349 5.75 2.10E+17 0.91E+22		109 Sm Samarium 150.36 349 5.75 2.10E+17 0.91E+22		110 Eu Europium 151.964 349 5.75 2.10E+17 0.91E+22		111 Gd Gadolinium 157.25 349 5.75 2.10E+17 0.91E+22		112 Tb Terbium 158.92534 349 5.75 2.10E+17 0.91E+22		113 Dy Dysprosium 162.50087 349 5.75 2.10E+17 0.91E+22		114 Ho Holmium 164.93032 349 5.75 2.10E+17 0.91E+22		115 Er Erbium 167.259 349 5.75 2.10E+17 0.91E+22		116 Tm Thulium 168.93421 349 5											





Consequently, one can say that all fundamental particles possess frequency, and these frequencies can be utilized in various applications.

### C. Design and Manufacture of Gravitational and Electron Lasers to Bombard Atoms

Consider the frequency of a specific electron or nucleus of a specific atom to be  $F_1$ , if we design a laser with the same frequency  $F_1$  and emit to that atom, the resonance phenomenon will occur, resulting in fission. According to equations ( $C = \lambda F$  or  $C = \lambda/T$ ) the same frequencies mean having the same wavelength and equality of the rotational radius of the photons of the laser and the electron or nucleus of the atom.

If the laser has the same frequency as a specific electron in an atom (meaning it has the same wavelength or rotational radius  $R_{\text{mom}}$ ), they could collide at a specific point. If the frequencies differ, the probability of collision decreases, and it may not occur at all. This is because a photon traverses in a helical path similar to a spring. When these photons are shaped into a laser, it is like an array of photons with a specific and defined radius traversing along a helical path, essentially creating a cylindrical shell.

If the radius of the inner cavity of this cylindrical shell does not match the rotational radius of the electron or nucleus of the atom, either no collision will occur or the probability of collision will be extremely low. The bombarded particles will pass through the central empty space or tunnel without collision. In reality, the optimal laser effect is achieved when the particular laser particles and the electron or nuclear particles have the same rotational radius (same frequency).

Given these explanations and the frequency values of electrons and nuclei, we must manufacture a specific laser to achieve the desired fission from the collision of the laser and the atom.

#### Note:

Given the extremely high difference between the rotational radius of electrons (and nuclei) of atoms and the rotational radius of visible lasers, these types of lasers are not suitable for the fission of an atom. We need to develop a laser with a frequency of at least  $10^{18}$  Hz, as common lasers are not applicable. For the fission of a nucleus using this method, we propose using gravitational lasers or electron lasers.

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[2] Saleh, Gh. "A New Method for Fission of Atoms of Elements Using the Resonance Phenomenon 2024." Saleh Theory, 11 Aug. 2024, <https://www.saleh-theory.com/article/a-new-method-for-fission-of-atoms-of-elements-using-the-resonance-phenomenon-2024>

[3] Saleh, Gh. "A New Explanation for the Formation and Structure of Orbitals ( $1s^2$ ) in the Universe 2024, Part B." Saleh Theory, 29 Jan. 2024, <https://www.saleh-theory.com/article/a-new-explanation-for-the-formation-and-structure-of-orbitals-1s2-in-the-universe-2024-part-b>

