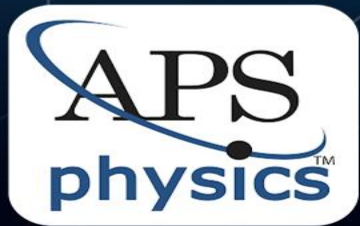


**2021 Meeting of the
Division of Particles
and Fields of the
American Physical Society
(DPF21)**



12-14 July 2021

Paper Title

The structure of an electron
and calculation the actual
energy of that

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Saleh Research Group



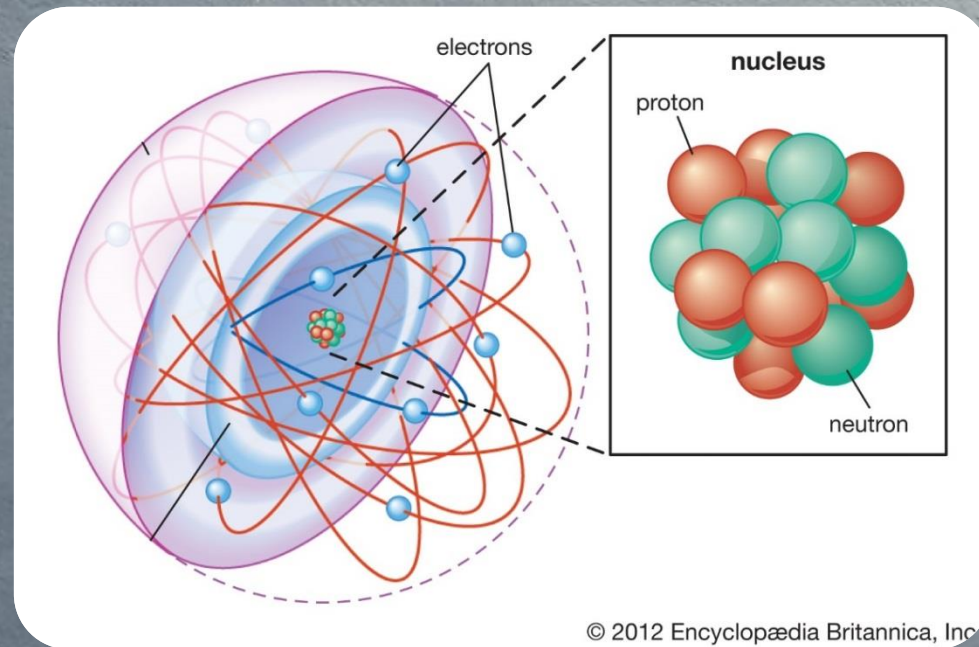
- A group of independent researchers
- Offers a new look to the world of natural Science differently.
- Presenting its new theories as Saleh Theory.
- The head of Saleh Research Group: **Prof Gh. Saleh**
- For this conference the topic that we choose for present is:

The structure of an electron and calculation the actual energy of that

Electron



- One of the fundamental parts of an atom is electron, which has a special structure and situation in the atom
- It **rotates** very fast around the nucleus and around itself at the same time.



Rotation in the Universe



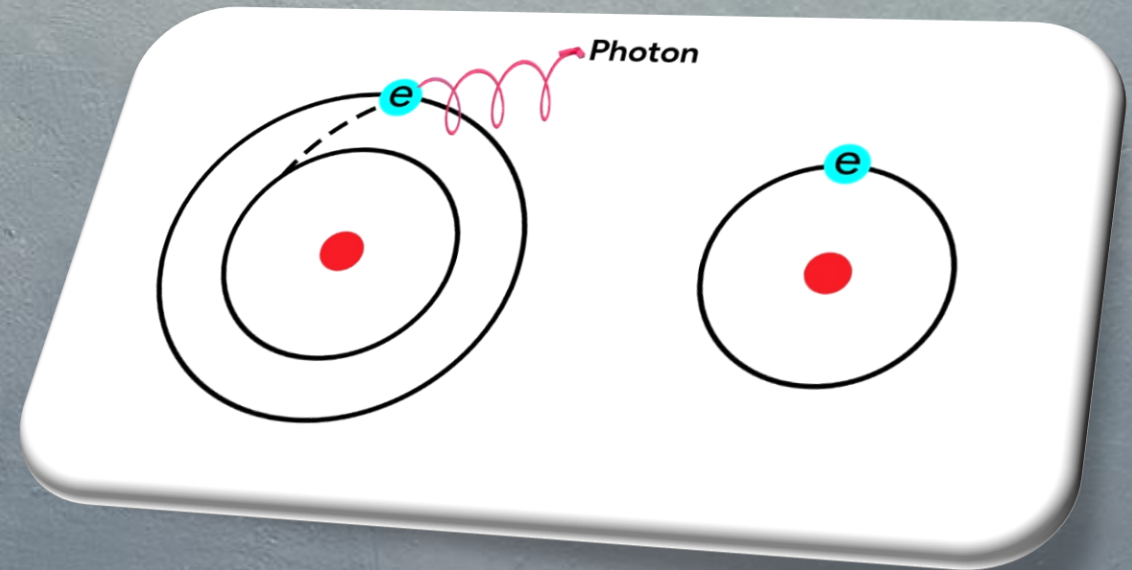
- This rotation causes the structures to be stable.
- Everything from the smallest object in the universe to the largest one are in rotating. e.g. the black holes and also the universe itself
- If the rotation was not both internal and external, the regularity and stability that exist in the universe will be unstable.



The primary building block of the universe



- Saleh Theory: the photon is the primary building block of the universe (the fundamental structure of matter)
- The Electron is also made of photons.
- The photon rotates around itself and around the imaginary orbit, perpendicular to its motion.
- Due to the motion of the photon around itself and on the surface of the electron, the motion of the photon is a continuous helical motion.

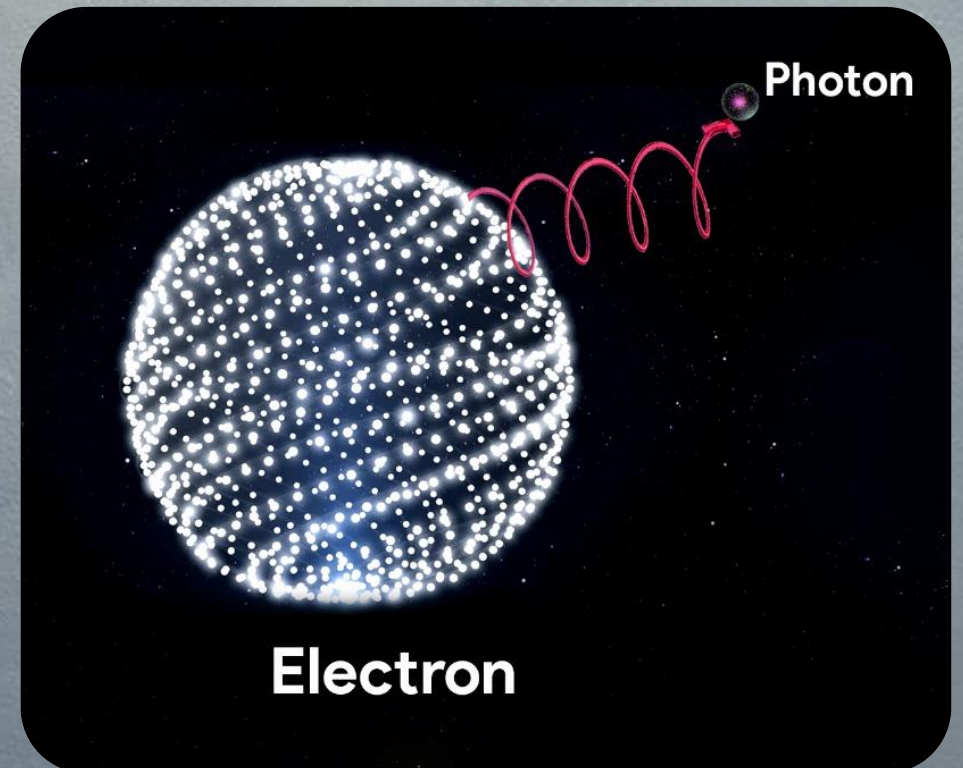


- 52nd Annual Meeting of the APS Division of Atomic, Molecular and Optical Physics, abstract id.X05.007 -
- The SAO/NASA Astrophysics Data System (ADS) (<https://ui.adsabs.harvard.edu/abs/2021APSDAMOPX05007S/abstract>)

Electron Structure



- The Electron is made of photons
- These photons rotates on the surface of an imaginary sphere without any central core



The Energy of Electron

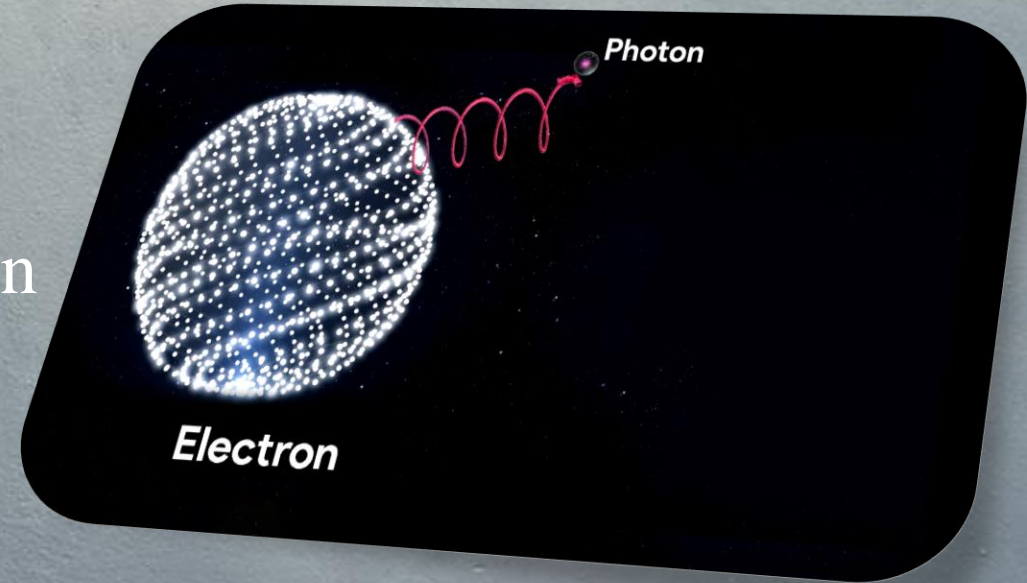


$$E_e = E_1 + E_2 + E_3$$

E_1 : Inner energy

E_2 : Rotation of photons on the surface of Electron

E_3 : Rotation of Electron around the nuclei



$$E_e = \frac{1}{2} m_e c^2 + \frac{1}{2} m_e r^2 \omega^2 + \frac{1}{2} m_e \dot{r}^2 \dot{\omega}^2$$

The Energy of Electron



$$E_e = E_1 + E_2 + E_3$$

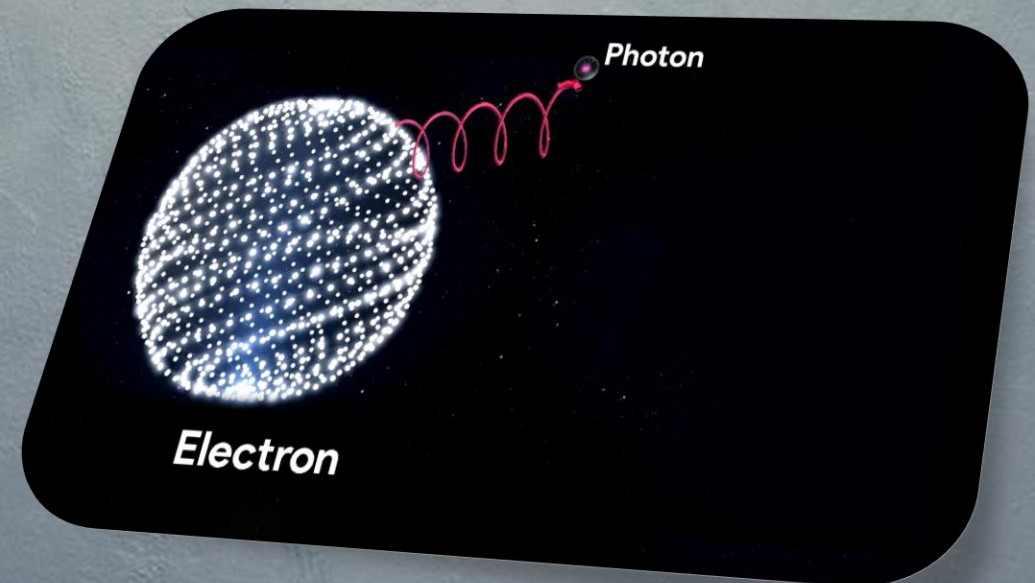
$$E_e = \frac{1}{2} m_e c^2 + \frac{1}{2} m_e r^2 \omega^2 + \frac{1}{2} m_e \dot{r}^2 \dot{\omega}^2$$

$$E_e = \frac{1}{2} m_e c^2 + \frac{1}{2} m_e a c^2 + \frac{1}{2} m_e b c^2$$

$$E_e = \frac{1}{2} m_e c^2 (1 + a + b)$$

$$a + b \cong 1$$

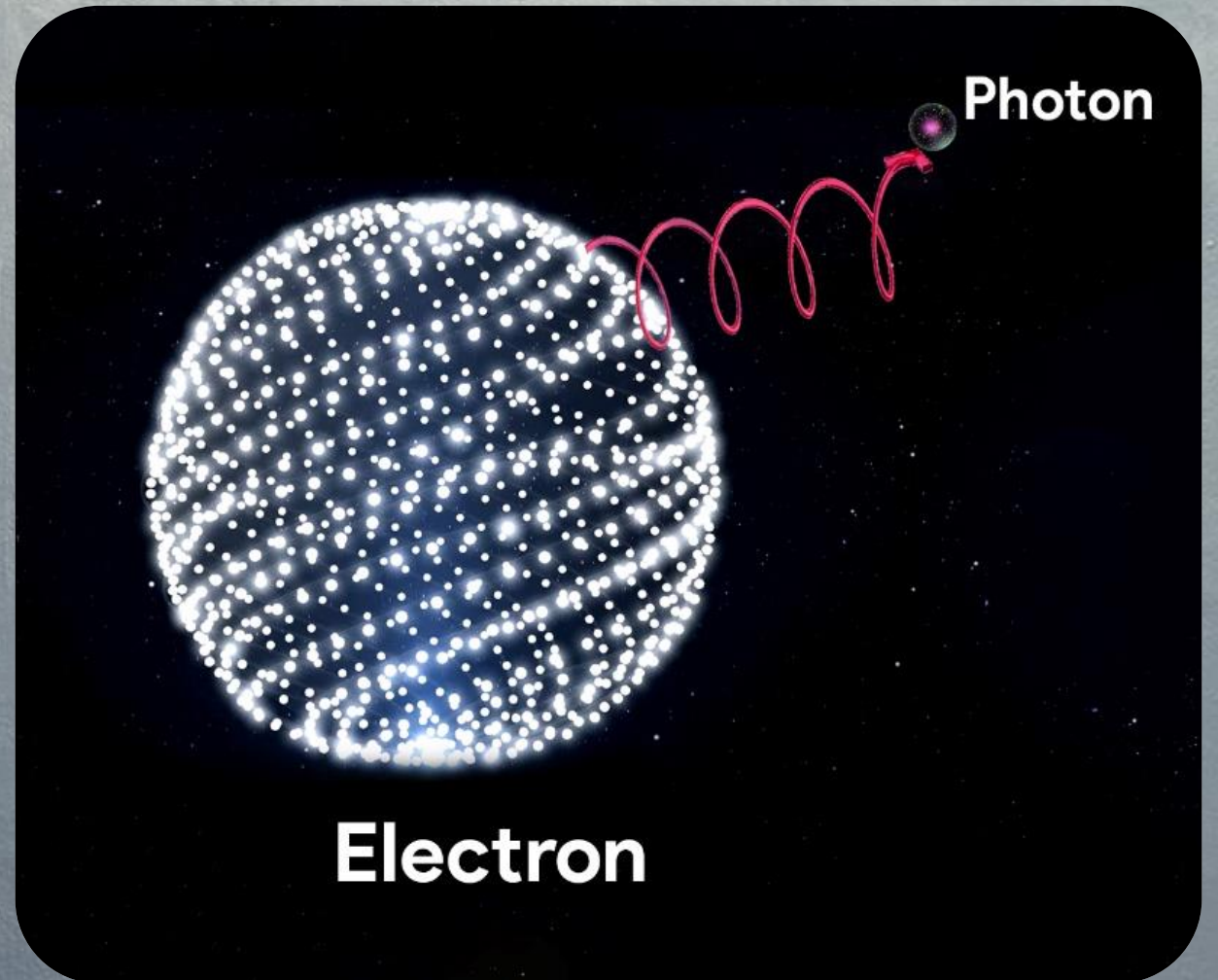
$$E_e \cong m_e c^2$$



Results



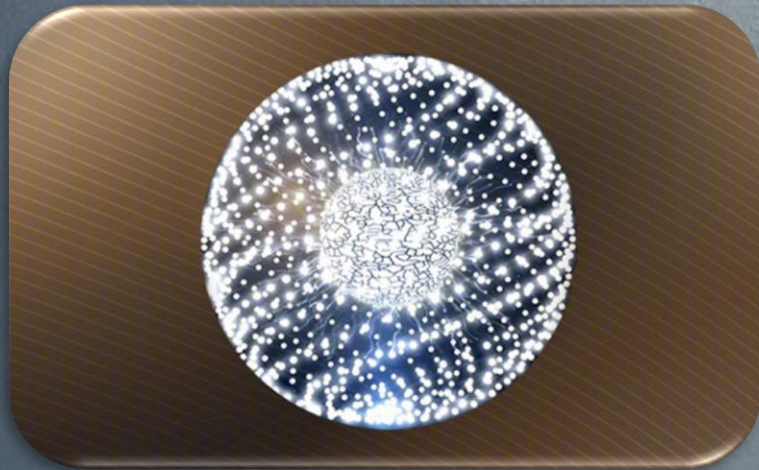
- The Electron is a hollow sphere
- The Electron is made of photons
- These photons are in rotation
- The total energy is $E_e \cong m_e c^2$
- The total energy of Electron has 3 different parts



Proton and Neutron Structure



- The Proton as a dense compact globe filled up of Photons with a radius three times smaller than that of an Electron
- The Neutron is a sphere with the Proton core, Electron shell and an empty space twice as much as Proton's radius.



Superstring Theory & the Structure of Electron, Proton and Neutron

- 2020 Fall Meeting of the APS Division of Nuclear Physics, abstract id.SH.006
- The SAO/NASA Astrophysics Data System (ADS) (<https://ui.adsabs.harvard.edu/abs/2020APS..DNPSH.006S/abstract>)



Thank You For Your Attention

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