

Abstract Submitted
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The Radiation Magnetic Force (F_{mR}). MAHMOUD YOUSIF, Physics Department - The University of Nairobi — In 1820 Ørsted discovered electric current produced Circular Magnetic Field (**CMF**), originated from electron's movement, but not incorporated in theoretical works; the mutual interactions of electric fields and different magnetic fields, represents the attractive and repulsive forces resulted from *field's interaction*; as electron's and proton's CMF hold magnetic energy, its transformed into Electromagnetic Radiation (**EM-R**) when integrated with Electric Field during the Flip-Flop process; a relationship between frequency of **EM-R** and a constant derived the Radiation Magnetic Force (F_{mR}), embedded in EM-R, it's

$$F_{mR} = \sqrt{y} v^3$$

Where, v is frequency, y is Constant of Radiation = $1.9063181614361072009999849625463 \times 10^{-61} \text{ N}^2 \cdot \text{Hz}^{-3}$. F_{mR} is similar to Planck's constant h ; its absence forced Einstein to invoke photon; it remove electron in Photoelectric Effects, excited and ionized atoms, initiate production of secondary **EM-R** in Compton Effect, help explain the double slit experiment; the poster is to better understand the nature and mechanisms of **EM-R** and microscopic world, develop advance systems of lights among others.

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