Radio Astronomy 101

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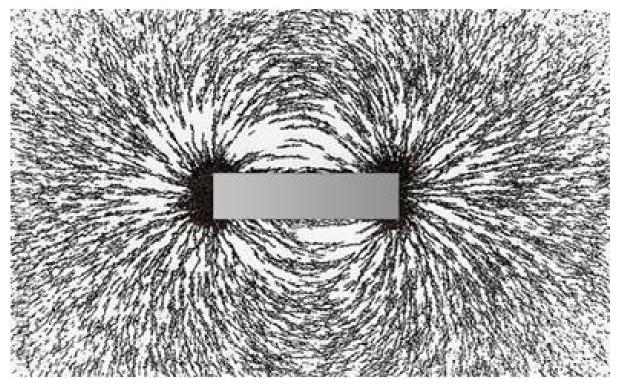
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Caution!

We will use English terms in order to get introduced with the Jargons

Day 1: Electro-Magnetic Wave

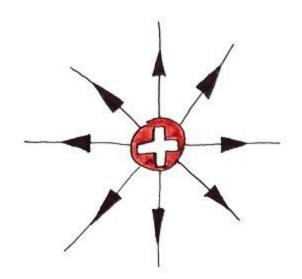
Question1: What is Charge?



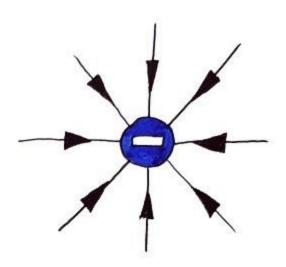
Magentic Field Lines



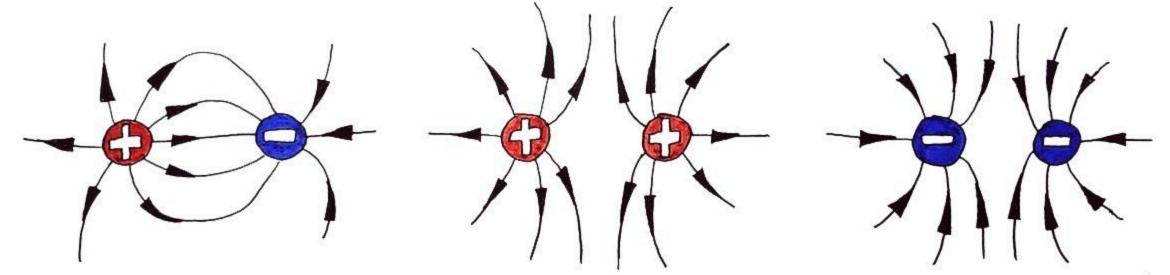
Michael Faraday FRS



positive charge



negative charge



Attract Each Other

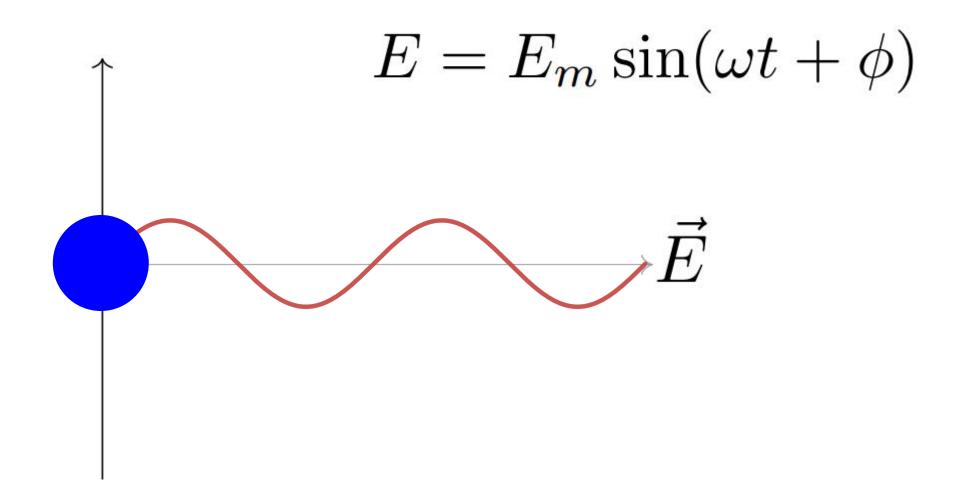
Repel Each Other

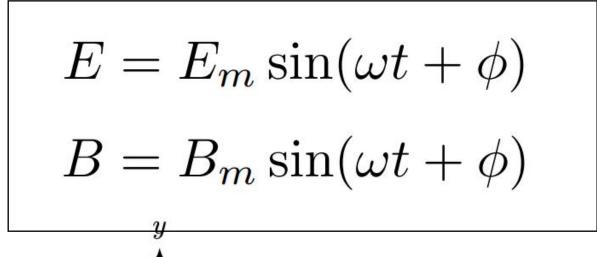
$$\nabla \times \vec{E} = -\frac{\partial \vec{B}}{\partial t}$$

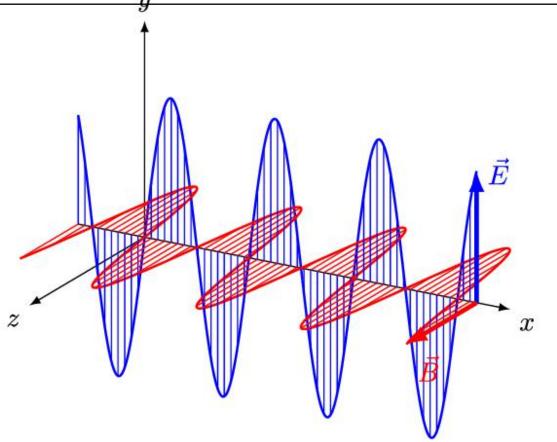


James Clerk Maxwell









Question2: Is Light an E-M Wave?

Question 3: Does Photon have a charge?

Question 4: Then How is Light an E-M Wave?

$$\nabla \times \vec{B} = \mu_0 \vec{J} + \frac{1}{c^2} \frac{\partial \vec{E}}{\partial t}$$

Any Questions?

