$$\frac{d\vec{L}}{A} = e^{\vec{r}} \times (\vec{r} \times \vec{B}) = \frac{eg}{4\pi r^3} \vec{r} \times (\vec{r} \times \vec{r})$$

$$=\frac{e^3}{4\pi}\left(\frac{\dot{r}}{r}-\frac{\dot{r}\dot{r}}{r^2}\right)=\frac{1}{14}\left(\frac{e^3}{4\pi}\hat{r}\right)$$

$$\frac{d}{d+}\left(\frac{1}{2} - \frac{eq}{4n}r\right) = 0 \qquad \Rightarrow \frac{1}{mod} = \frac{1}{4n}r$$

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$$\frac{1}{L_{mol}} \cdot \hat{r} = -\frac{eq}{4n} = de$$

$$\cos \theta = \frac{-eg}{4\pi 2}$$

$$= \frac{\vec{L} \cdot \hat{r}}{1}$$

From QM: 
$$L_z \in \frac{1}{2} \pm \overline{Z}$$

$$\frac{eg}{4n} = \frac{1}{2} \pm n \quad \longrightarrow \quad eg = 2n \pm n$$

$$\frac{7}{3} = \overline{L} + \overline{S} \quad \frac{1}{3} = \frac{1}{2n \pm n} \quad \overrightarrow{r} \times \overrightarrow{p} + \overline{S} - \frac{1}{2} \xrightarrow{r}$$

$$\frac{1}{3} = \frac{1}{2n \pm n} + \frac{1}{3} = \frac{1}{2n \pm n} = \frac{1}{2n} = \frac{1}{2n \pm n} = \frac{1}{2n \pm n} = \frac{1}{2$$

The Theta Tern: TOV: Utom  $S_{new} = \frac{1}{r_0} \int J_X \left(-4F^r f_{nr}\right) + O(F^4)$ Frequency  $S_{new} = \frac{1}{r_0} \int J_X \left(-4F^r f_{nr}\right) + O(F^4)$   $J_X \in \mathbb{R}^2$ .  $S^2$ 

\*From = 
$$\frac{1}{2} \in \frac{1}{2} = \frac{1}{2$$

$$\nabla = \frac{\nabla \cdot \vec{E}}{\nabla \cdot \vec{E}} = \frac{\alpha_c}{\rho} \nabla \theta \cdot \vec{E}$$

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Tapological Insulator