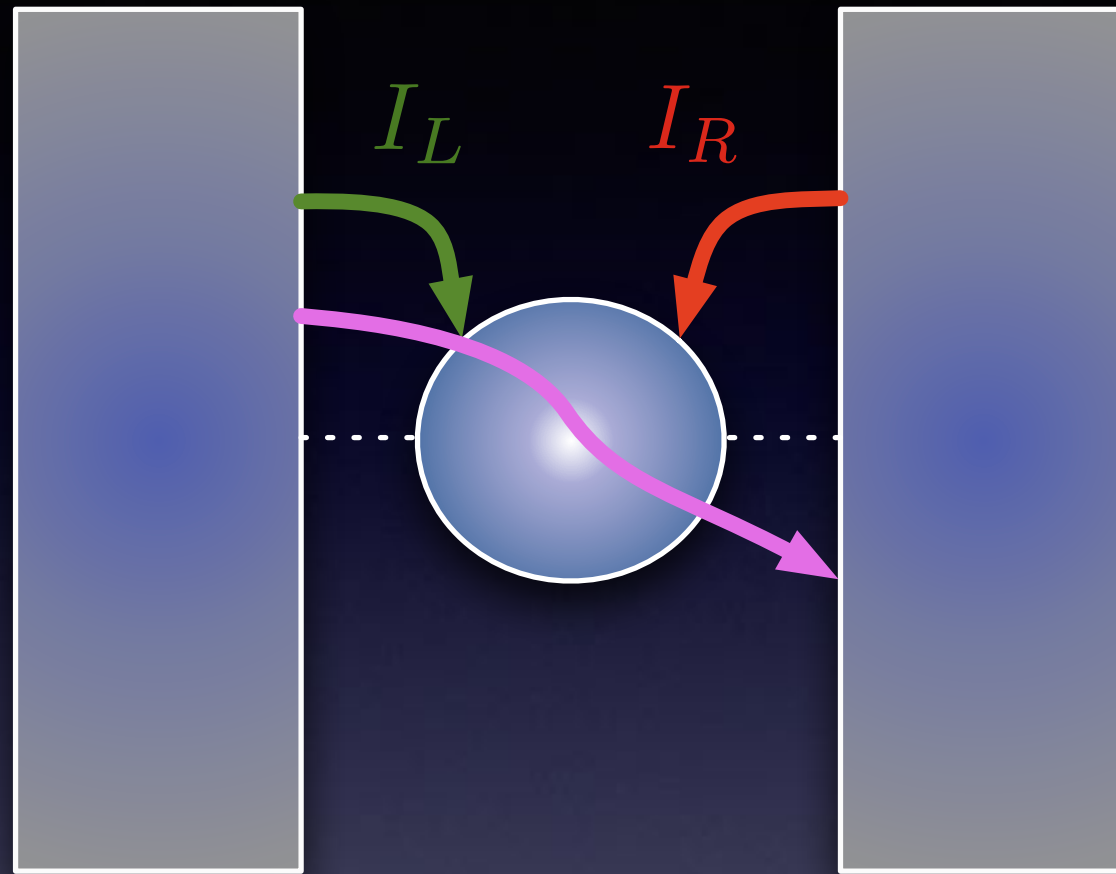


Molecular Electronic Devices



$$I_{\text{tot}} = \frac{1}{2} (I_L - I_R)$$

We'll be studying the current (**left**, **right**, and **total**).

$$I_L(t) = \text{Tr} \left(\hat{\rho} e^{i\hat{H}t} \hat{I}_L e^{-i\hat{H}t} \right)$$