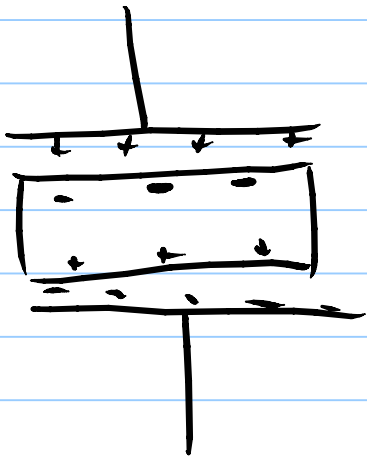


# Feed back

Note Title

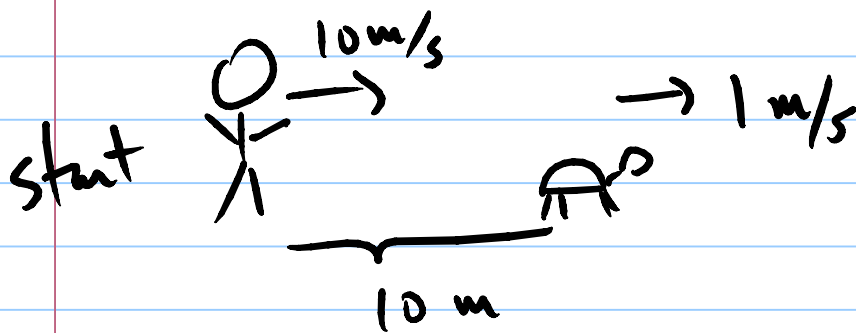
2/27/2011



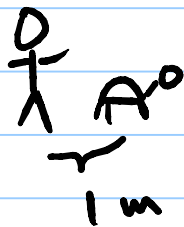
$$\vec{P} = \epsilon_0 \chi_e \vec{E}$$

↑ total E from  
both free & other bound  
charges

# Zeno's Paradox



1 s

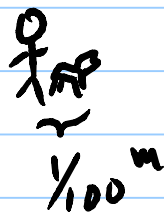


$$\frac{1}{10} \text{ s}$$



.1m

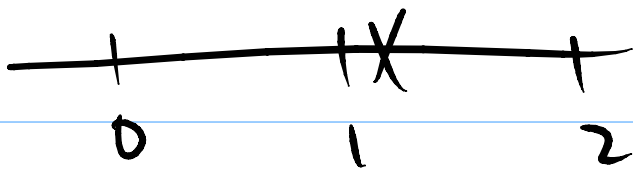
$$\frac{1}{100} \text{ s}$$



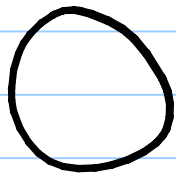
$\frac{1}{100} \text{ m}$

Zeno says Ach. will never catch the T.

$$1 + \frac{1}{10} + \frac{1}{100} + \frac{1}{1000} + \dots = 1.11111$$



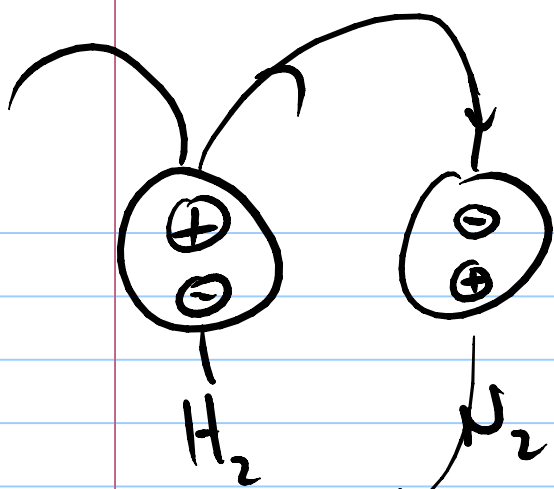
Q



H<sub>2</sub>



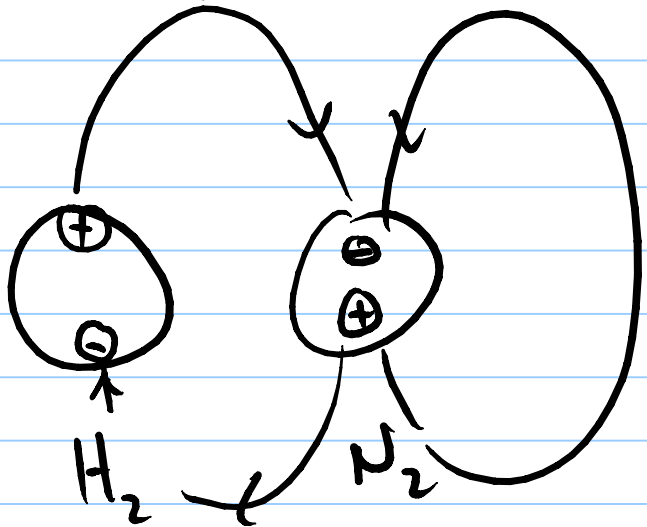
N<sub>2</sub>



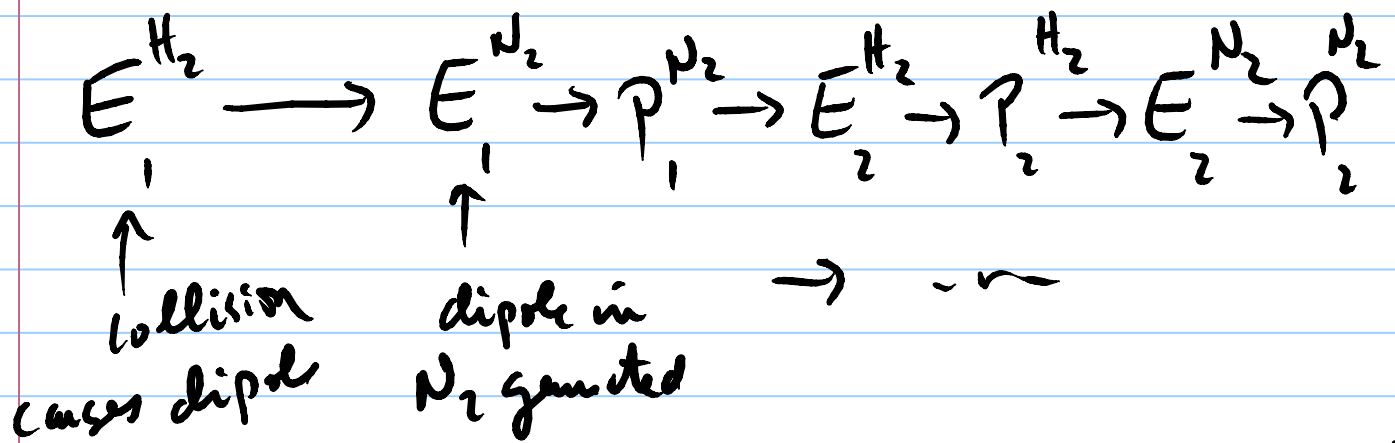
from collision

$$\vec{p} = \alpha \vec{E}$$

induce dipole

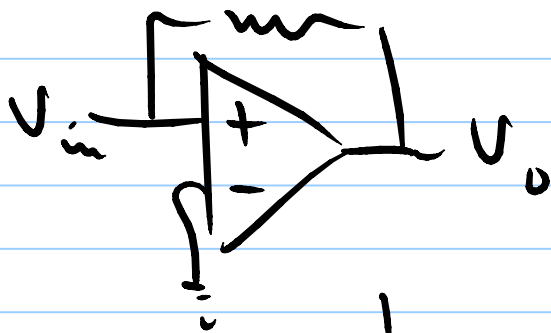


# Perturbation



$$E^{H_2} = E_1^{H_2} + E_2^{H_2} + E_3^{H_2} + \dots$$

$$E^{N_2} = E_1^{N_2} + E_2^{N_2} + \dots$$



$$\frac{1}{1-x} = 1 + x + x^2 + x^3 + \dots$$