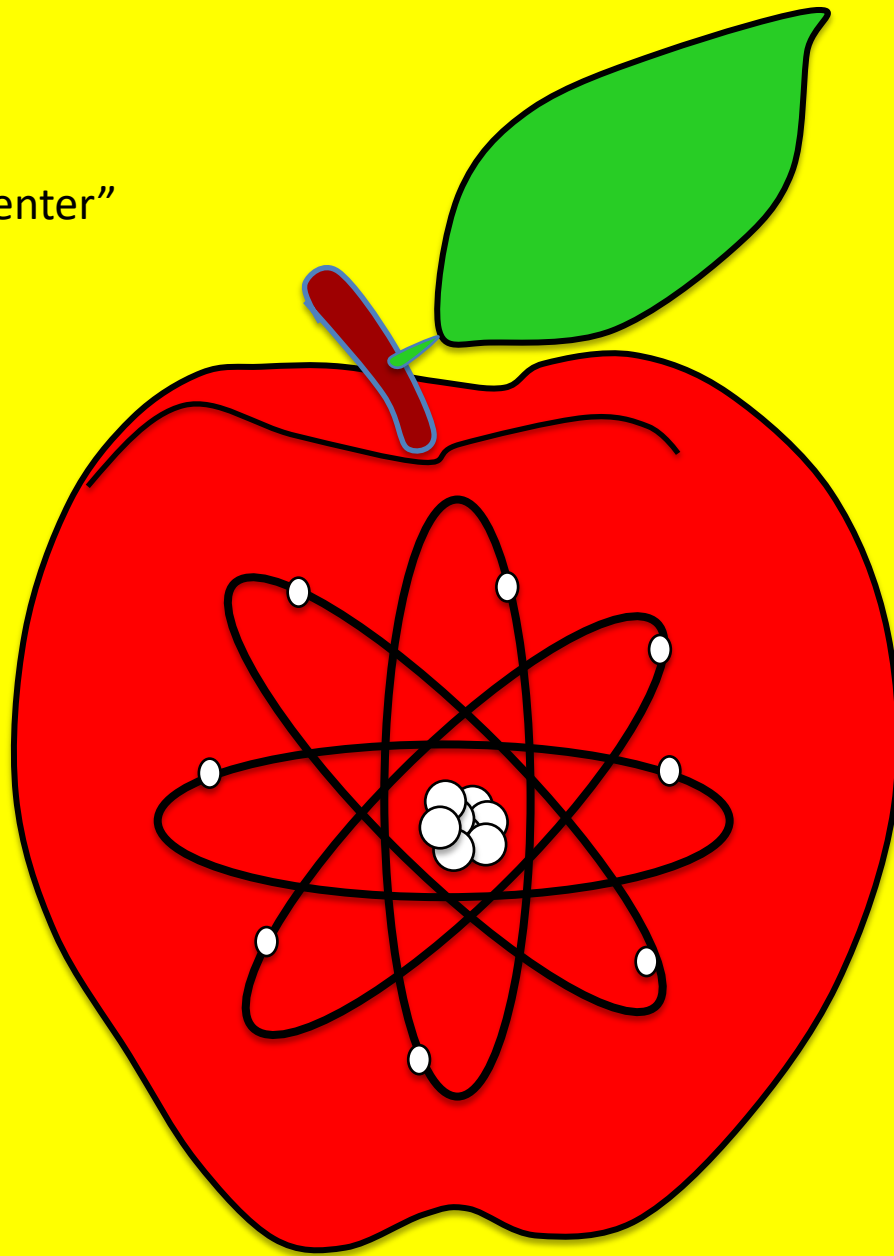


DIGITAL AGE

Special Topics: LabDisk

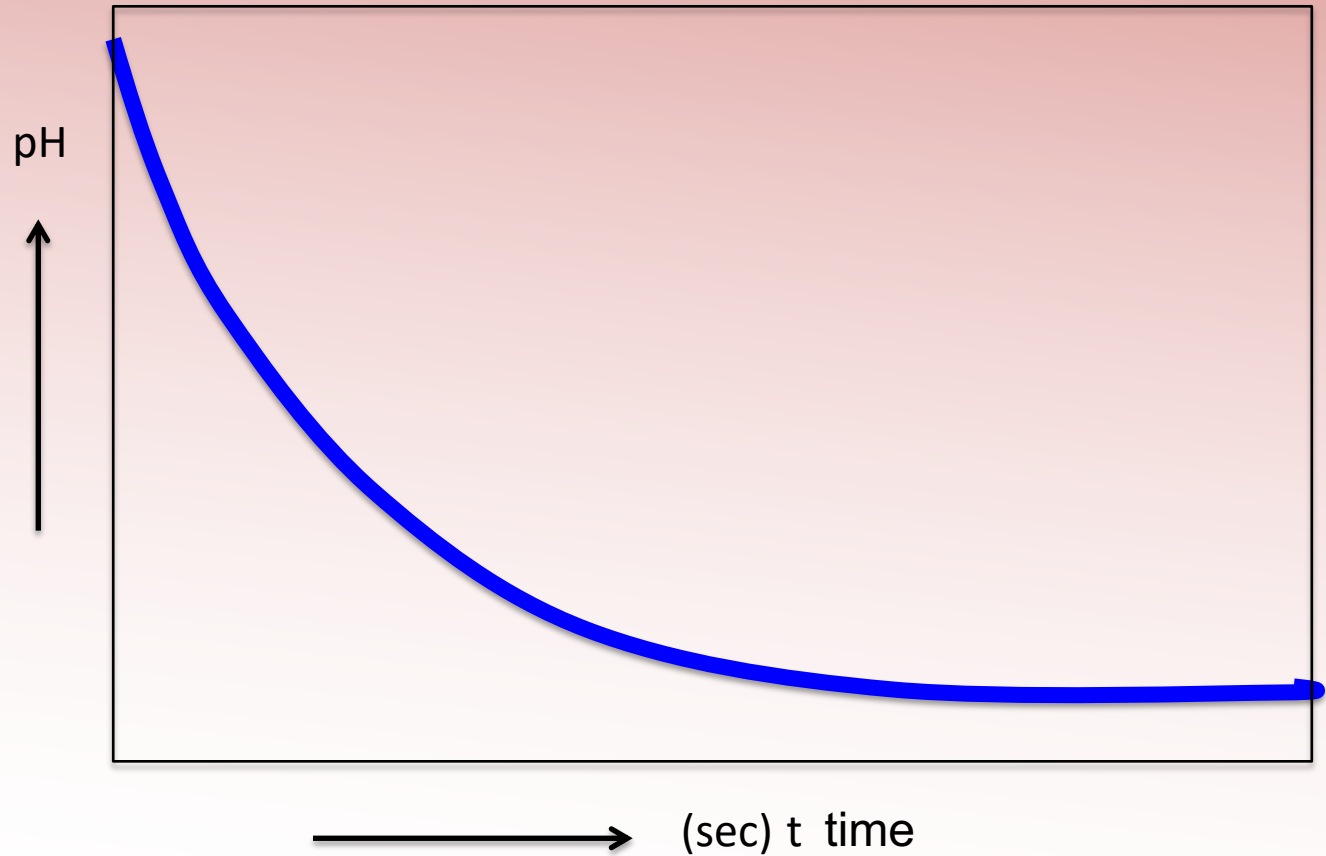
Collected and edited by Prof. Zvi Kam,
Weizmann Institute, Israel

THE COMPUTERIZED LAB
WAS DEMONSTRATED AT
THE “Aplle Israel Lotary center”
At OFAQIM



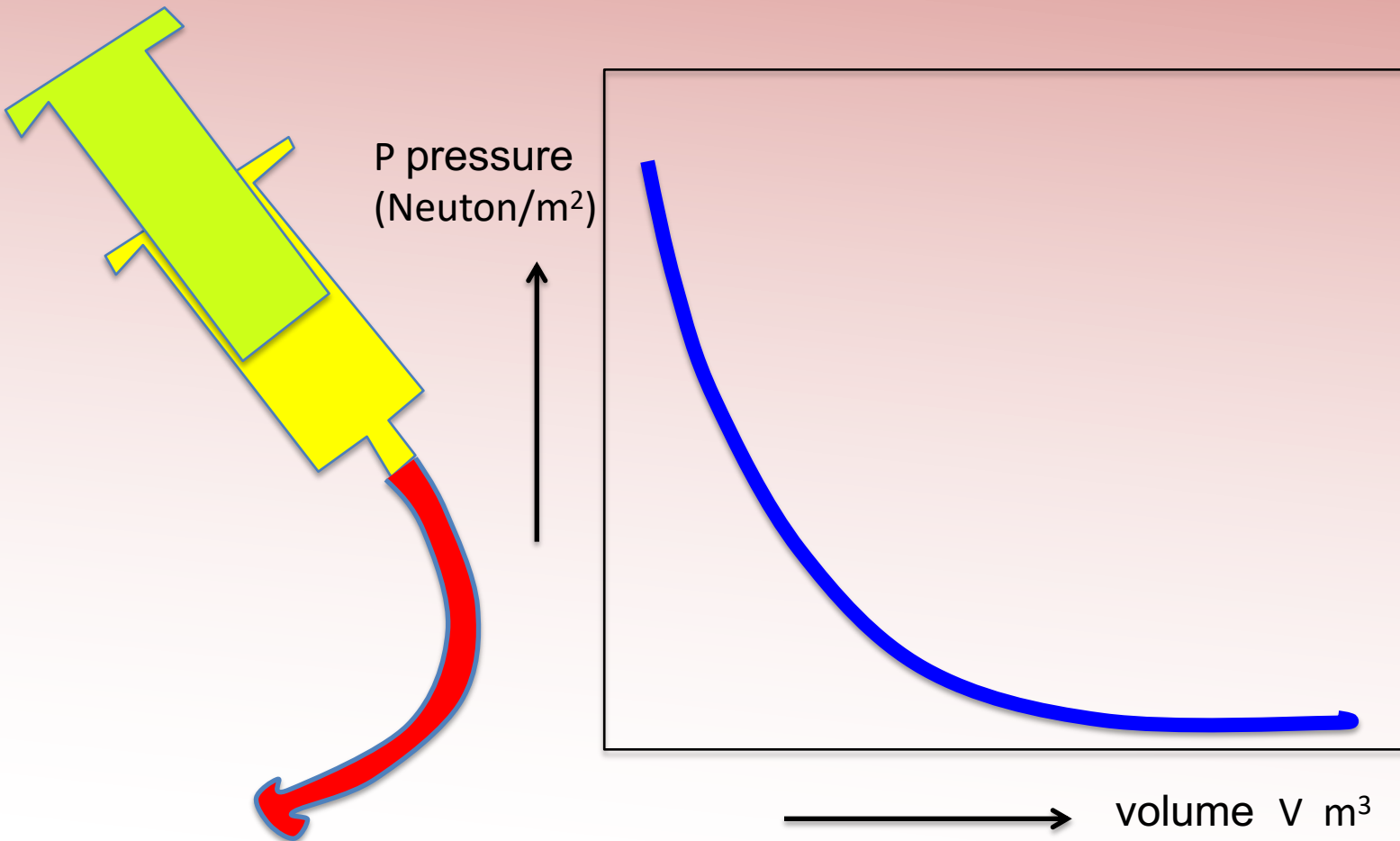
ACID RAIN

change \propto difference



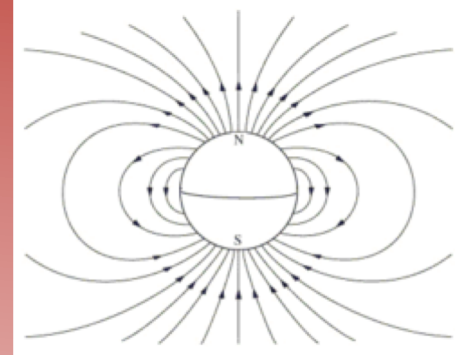
BOYLES LAW

$$PV = \text{const}$$

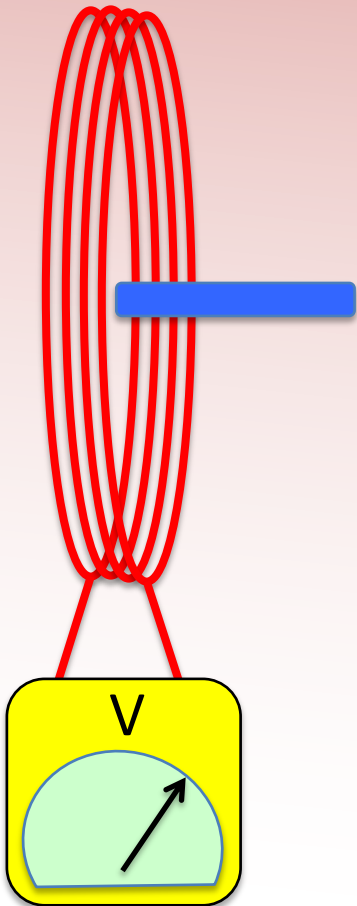


ELECTRIC GENERATOR

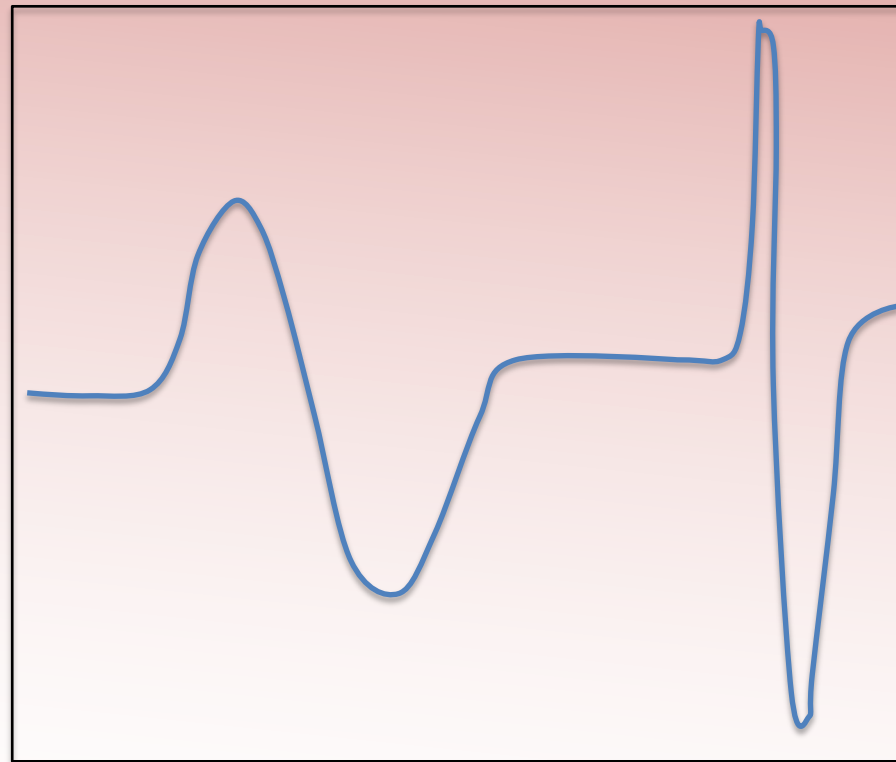
Force on a magnet in electric field is zero
But the moment turns it



$\varepsilon = dB/dt =$ rate of “crossing” magnetic field lines



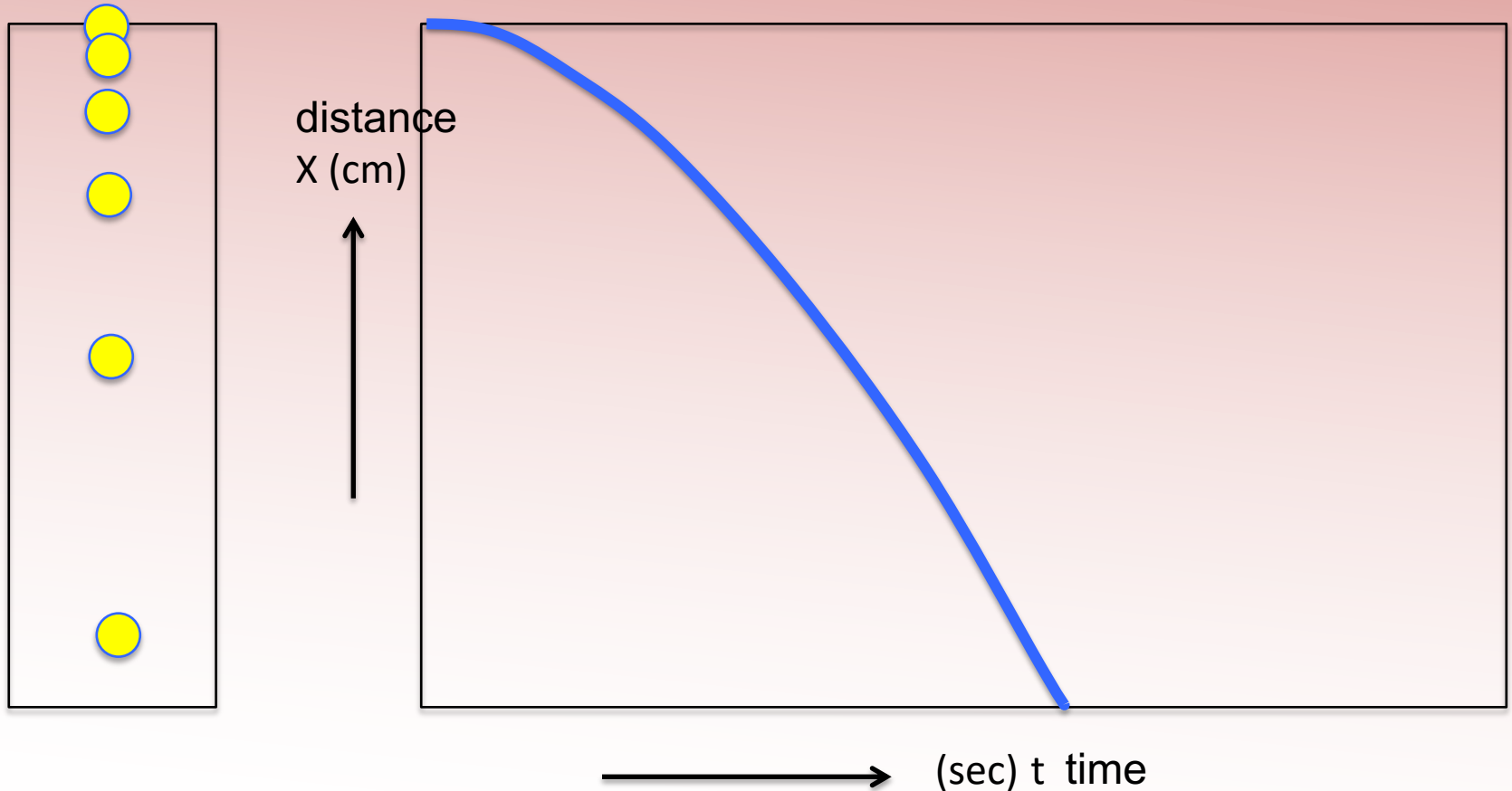
Volts



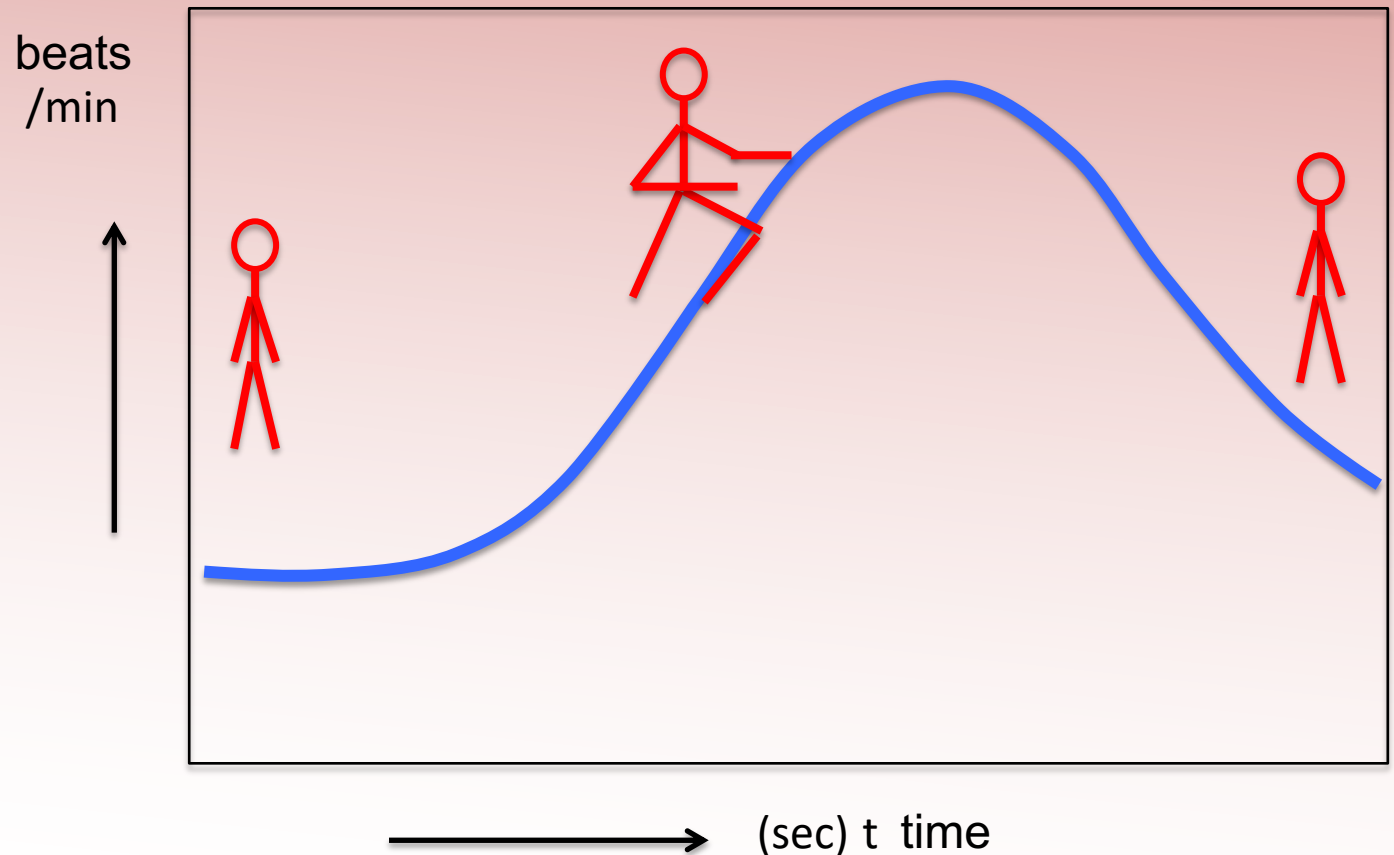
(sec) t

FREE FALL

$$x = \frac{1}{2} g t^2$$

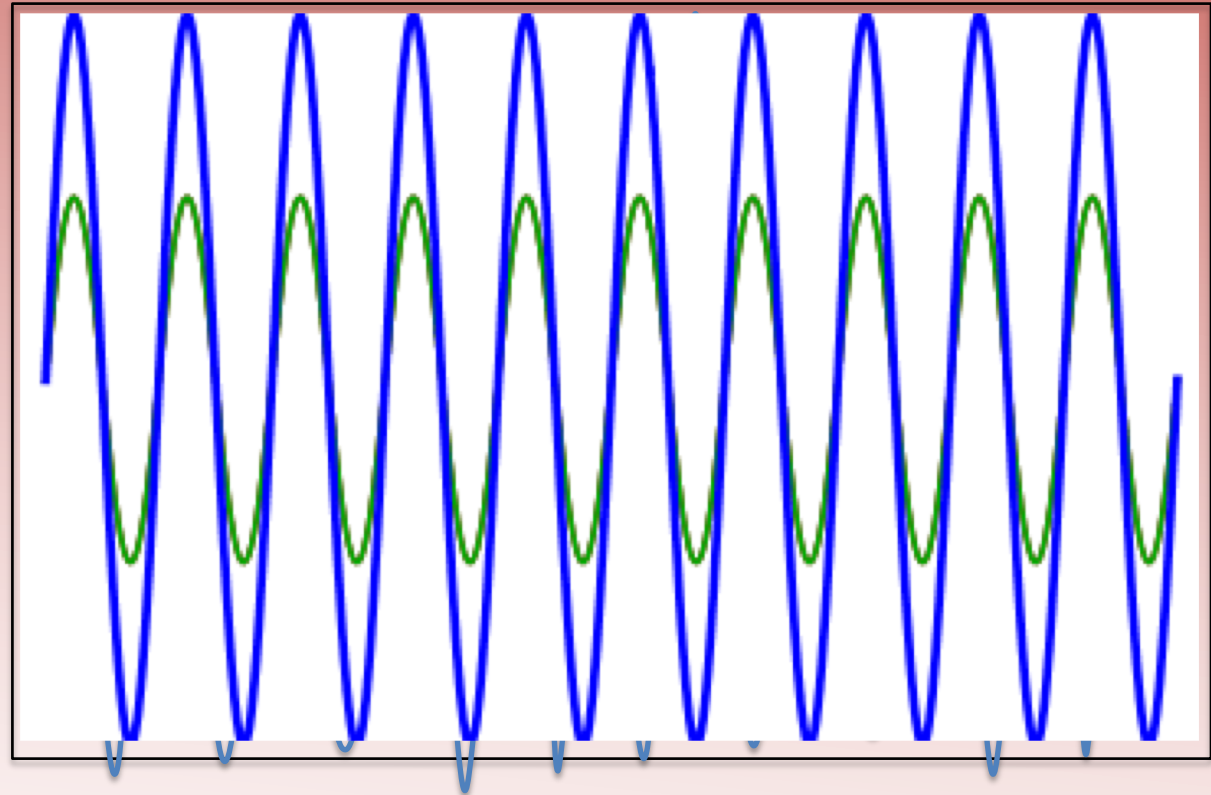


CHANGE OF HEART BEAT AND TEMPERATURE with activity

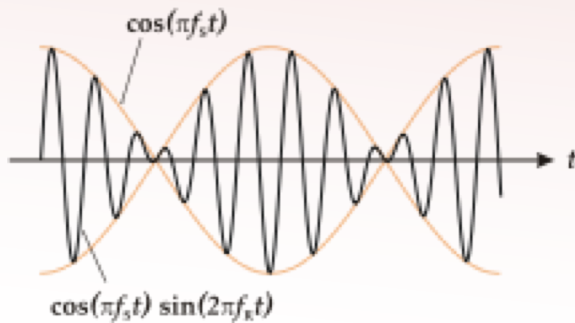


SOUND WAVE BEATING

Sound intensity



(sec) t time

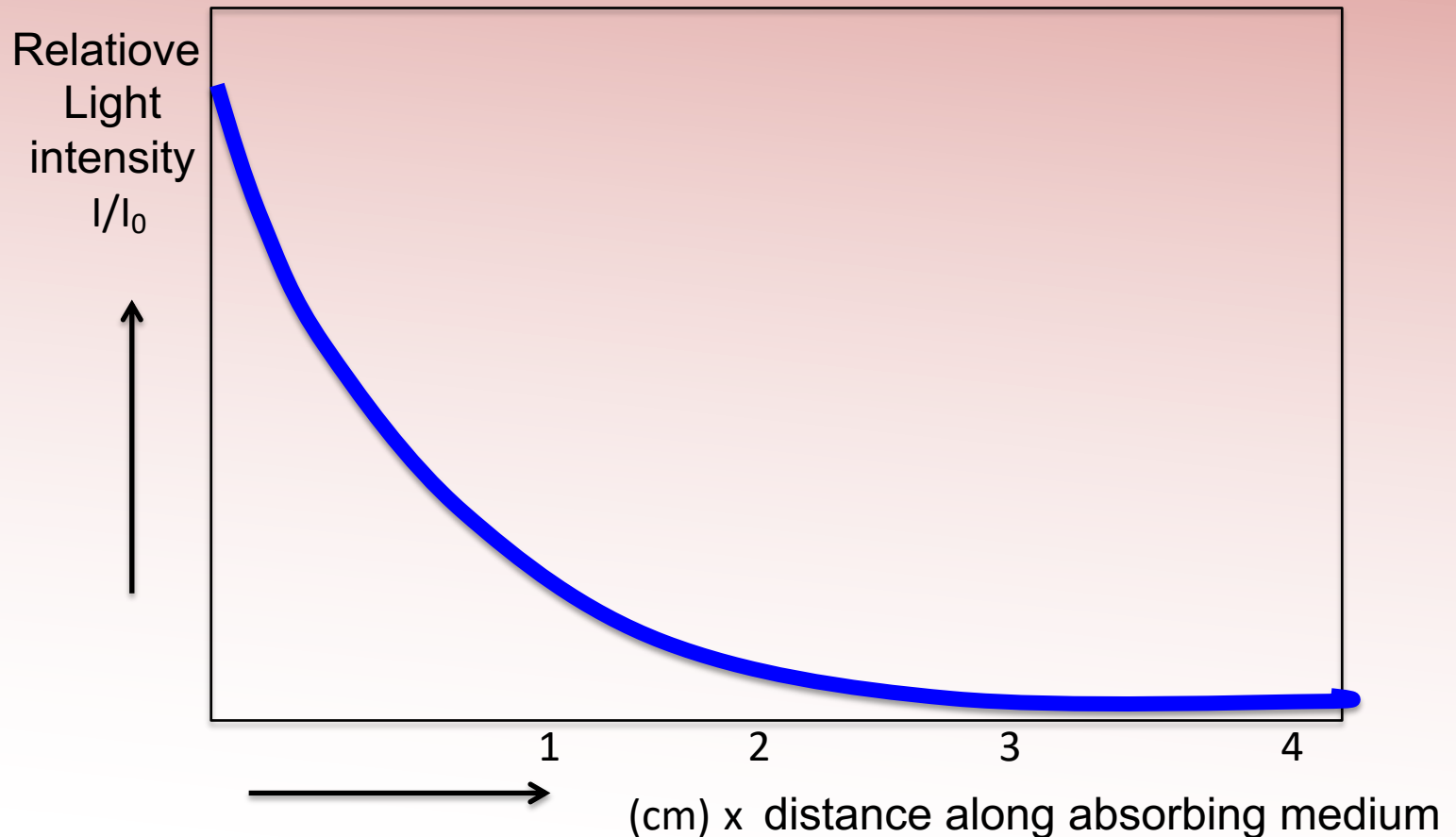


BEER-LAMBERT LIGHT ABSORPTION LAW

$$I/I_0 = e^{-\epsilon c x} \quad \Rightarrow \quad \ln(I_0/I) = \epsilon c x$$

Absorption coefficient: ϵ

Concentration of the solution: C



INTENSITY vs. DISTANCE FROM SOURCE

energy conservation

$$I \propto 1/x^2$$

