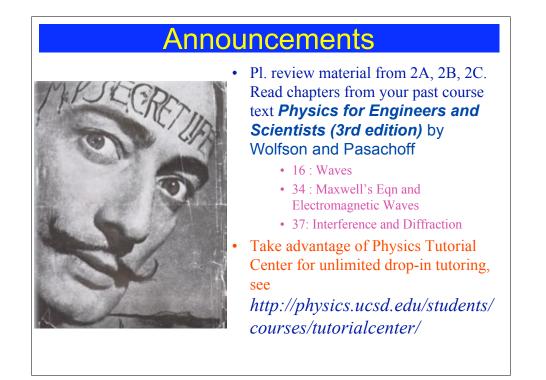
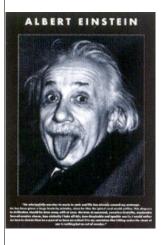


Physics 2D Lecture Slides Lecture 4: Jan 7 2005

Vivek Sharma UCSD Physics



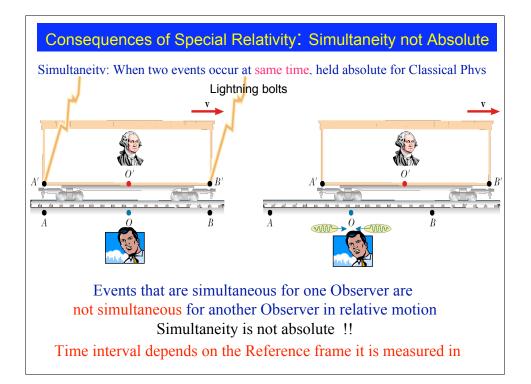
Einstein's Special Theory of Relativity

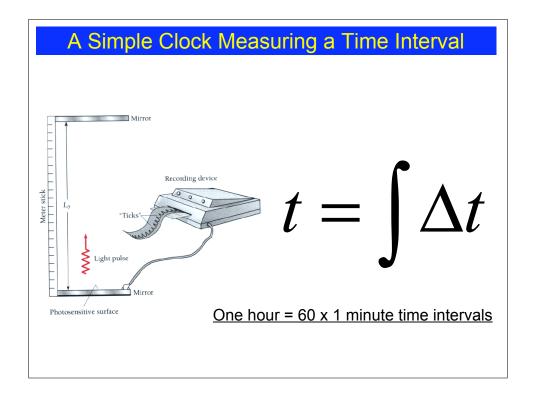


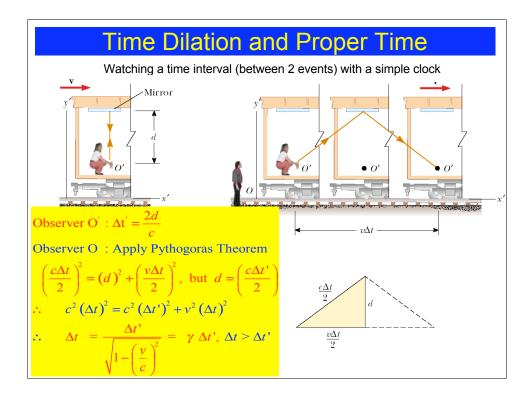
Einstein's Postulates

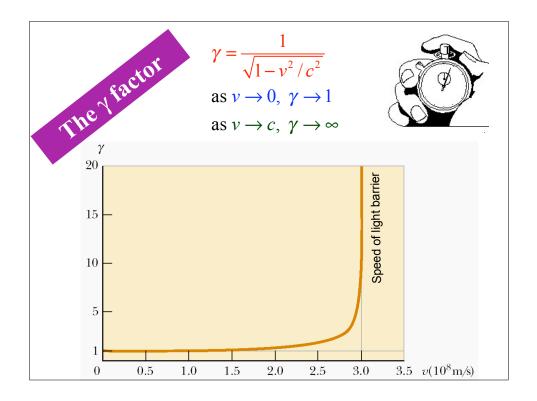
The laws of physics must be the same in all inertial reference frames

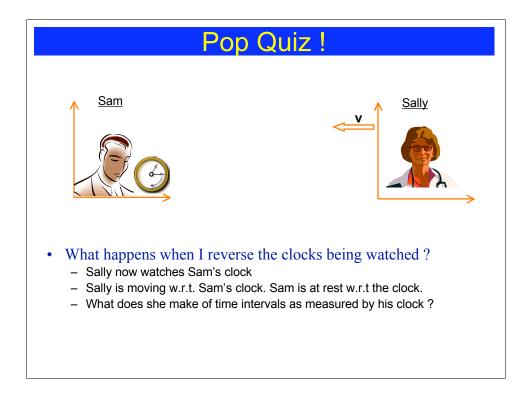
The speed of light in vacuum has the same value $c = 3.0 \times 108$ m/s), in all inertial frames, regardless of the velocity of the observer or the velocity of the source emitting the light

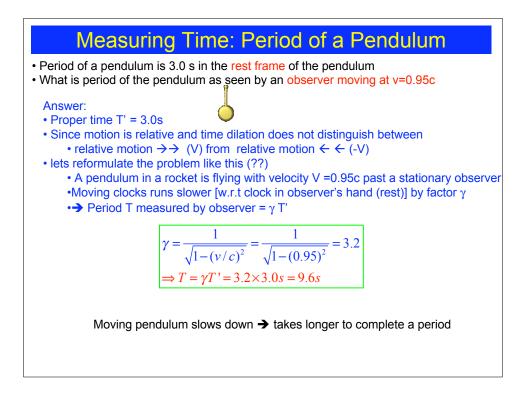


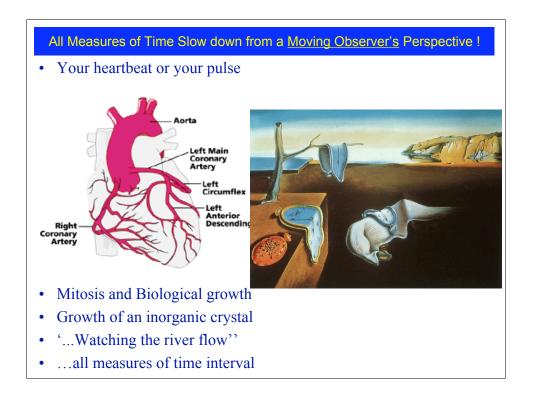


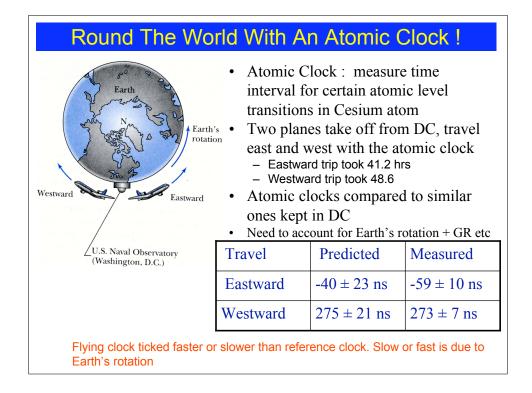


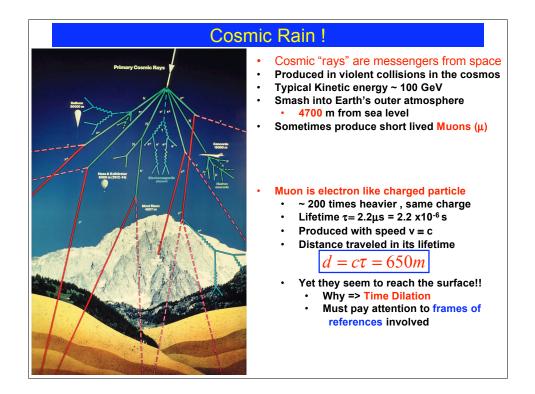


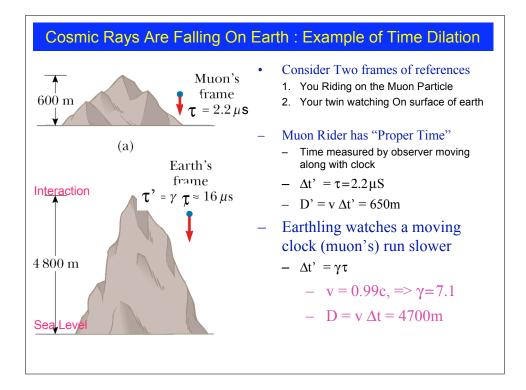


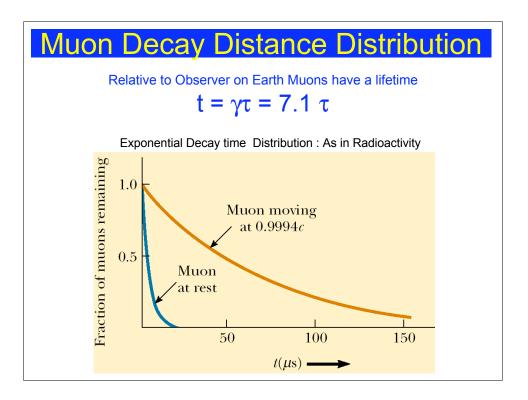


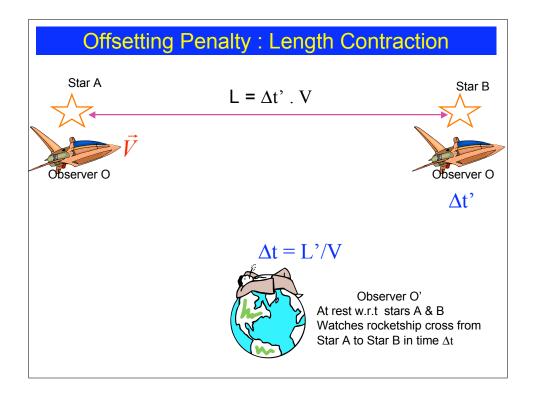


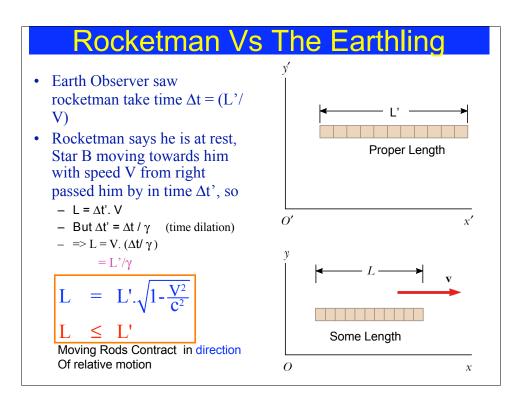


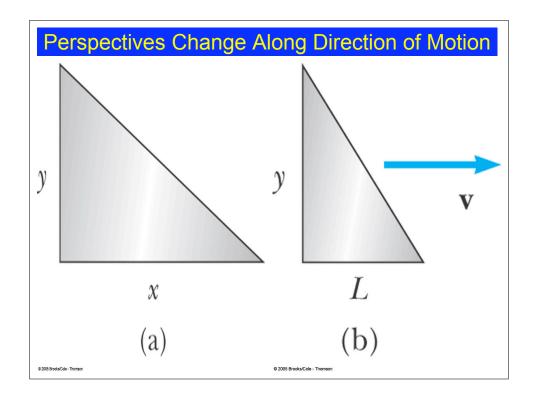


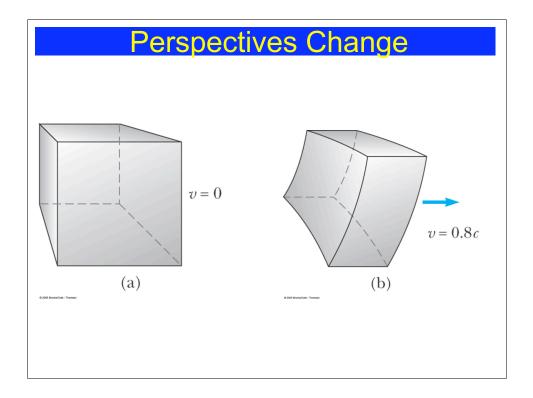


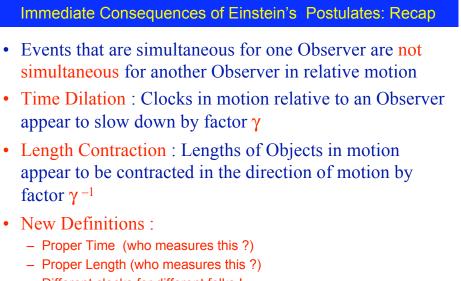












- Different clocks for different folks !

