

Twin Paradox / Writing letters from underway (See also Quiz)

Inertial Systems If clock in 5@x=y==z=0 ct, x, y, zSays et = 1 m Simultaneous W/is S saying ct = y. Im S' . O' = O TIME DILATION S' moves in +x direction with velocity V muon Tezzys x' 11 x , y' 11 y , 2'-11 z Length Contraction  $ct = \chi(ct + \xi x_e^1) \qquad \chi_e = \chi(\xi d_e^1 + \chi_e^1)$ 

Summary: Relativistic Effects, Lorentz Transformations