

### Written Assignment 4

Either (a) How do the concepts of velocity, momentum, energy and mass change (or not) in the transition from Newtonian to relativistic mechanics?

or (b) Explain *in your own words*, but as clearly as possible, what is “weird” about the Young’s slits experiment conducted at the level of single particles.

[Note: We will not be getting to the Young’s slits experiment in the lectures until the week of 18 Oct. However, those of you who are thinking of writing your term paper in the area of quantum mechanics should already be doing some of the associated reading.]

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The assignment is due by 5:00 p.m. on Fri. Oct. 22