

## 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 until lecture 16; 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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Please submit a double-spaced Word document (‘.docx’ or ‘.doc’) of 650-1000 words on Compass by class time (2p) on **Thursday, 23 October**.