

Written Assignment 4

Either (a) Argue whether the concepts of *velocity*, *momentum*, *energy*, and *mass* change (or not), in the transition from Newtonian to relativistic mechanics; and if so, how.

or (b) *In your own words*, but as clearly as possible, present an argument regarding 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 planning to write your term paper in the area of quantum mechanics should already be doing some of the associated reading.]

Please submit a double-spaced Word document
(‘.docx’ or ‘.doc’) of 650-1000 words on Compass
by 5p on **Thursday, 26 October**.