

Relativity & Gravitation

SPA7019

Assumed knowledge

I will assume that you know, and are comfortable with, the concepts below. If this is not the case, then come and see me immediately.

- The use of indices to denote sets of objects (such as components of vectors)
- The summation convention (i.e. $x_i^i = \sum_i x_i^i$)
- That units can be chosen such that $c = 1$ (this will be used throughout)
- The basics of special relativity, including the use of Minkowski space and position and momentum 4-vectors
- The Kronecker delta and the Dirac delta (not the same thing!)
- The basic rules of calculus (product rule, chain rule, etc).