1. Read chapter 1 of Mandl and Shaw.


3. Discuss the material. (a) Have you previously studied the topics of Chapter 1? *i.e.* The quantum theory of radiation. (b) What properties must a field have in order for it to exhibit quantum properties? (c) Can one quantize Newton’s gravitational field? (d) How do you measure the *frequency* of a wave? An electromagnetic wave? A Dirac wave? [Hobson’s fermion/matter field]. (e) These questions will be discussed in class on Aug 25.