In this advanced graduate quantum mechanics class, you will take turns lecturing. The text, Relativistic Quantum Mechanics by R. Parthasarathy covers the traditional topics you might expect and in a fairly straightforward way. Fluency in Dirac notation and familiarity with Dirac theory concepts are a prerequisite for the study of Quantum Electrodynamics and Quantum Field Theory (PHSCS 752-Winter 2017). The many exercises and problems are an integral part of the material and will also be discussed in class. Even though the text is self-contained and will be the primary source of information, you are encouraged to consult other books, websites, and additional sources of information to complement the material and broaden your perspective of Relativistic Quantum Mechanics. As advanced graduate students, the practice of taking turns lecturing to peers should greatly enhance your understanding of the material. I aim for a class where the audience participates as much as the lecturer. It is a model for group research seminars and workshops. It should also help you gain confidence in your lecturing abilities. Even though the pedagogy is not the main emphasis in this class and a traditional coverage with blackboard derivations of the equations is expected, you are welcome to innovate
or modify your teaching style as you and your peers see fit.