Computational Physics Homework 1

Shalma Wegsman September 2020

1 Latex Practice Document

I hope to gain from this course new computational skills that I can apply to my research down the line. I'm interested in particle phenomenology research, and so the tools of numerical differentiation/integration, random processes, and Monte Carlo methods should be especially useful for me for creating simulations.

I have some background in python that I've gained through previous research experiences and through my experimental lab classes as an undergraduate. I also took an undergraduate level computational physics class where I honed some of those python skills.

Once graduate school is finished, I hope to continue in a cademia with a research job. I am also passionate about doing some sort of outreach about my science next to my research, so I would like to try out some science writing and teaching on the side.