1. Examine Sec. 9.4 of the Burgess and Moore textbook, with the aim of understanding $K$-$\bar{K}$ oscillation itself and the treatment of CP violation.

Are the arguments they give sufficient? What is missing? Critique the treatment, and suggest what needs more detail or explanation.

2. If possible, find a more modern plot of the oscillation of a neutral meson than the one I showed in class. A good answer will show a copy of a plot (or plots) of experimental data, state what is plotted, and indicate where you found the plot(s). If you have difficulty finding a better plot than I showed, state what the difficulty is.

Hint: One place to start might be what the Particle Data Group writes about measurements of the mass difference for the $K^0_L$ and $K^0_S$, or for other relevant neutral mesons.