

**Information Concerning the Final Exam**

The final exam will be held in NPB 1101 from 4:00 to 6:00 p.m. on Tuesday, April 29.

The exam will cover all material discussed in the course through the symmetrization postulate for identical particles. Material beginning with second quantization will not be tested. A list of topics, cross-referenced to the course texts, appears on the course Web pages at [www.phys.ufl.edu/~kevin/teaching/6646/03spring/topics.html](http://www.phys.ufl.edu/~kevin/teaching/6646/03spring/topics.html).

Available credit on the exam will be split approximately equally between (a) questions requiring fairly short answers without much calculation, and (b) one or more parts requiring more extensive calculation. Part (b) will focus primarily on scattering.

During the exam, you will be allowed to consult Shankar, your lecture notes, and solutions (your own and mine) to this semester's homework assignments and mid-term exams. You may bring in a book of mathematical tables, although the questions will specify non-standard integrals that you are likely to need. No other written/printed materials will be allowed.

Among the steps you take to prepare for the exam, you are advised to consider the following:

- Familiarize yourself with the organization of material in Shankar, including the examples. You may well be able to save time and effort during the exam by quoting standard results from the text rather than rederiving them yourself.
- Review the homework and exam questions. Most important is identifying the qualitative features (the symmetries that are present or absent, the boundary conditions, etc) that determine which concepts you must apply and/or which methods you must use to solve each problem. Think about possible modifications of the problem, and whether or not they would qualitatively change the answer.
- As time permits, study additional exercises from Shankar.