Physics 129c, Mathematical Methods of Physics

Spring 2002, Course Information

Lectures: Tuesday and Thursday, 9:00-10:30 am at 103 Downs.

Instructor: Professor Hirosi Ooguri

office: 463 Lauritsen, email: ooguri@theory.caltech.edu

Graders: Takuya Okuda, 422 Downs (ext. 2631), email: takuya@its.caltech.edu
Xinkai Wu, 417 Downs (ext. 2634), email: xinkaiwu@its.caltech.edu

Textbook:

The course will be based on:

W.-K. Tung, "Group Theory in Physics," ISBN 9971-966-57-3 (pbk).

Homework:

Problem sets will be normally handed out on Thursday and be due the following Thursday to the grader. Extensions may be granted on an individual basis by prior agreement of the grader. You may discuss the problems with other students, but you should write up your solutions independently.

The problem sets will also be available at http://www.theory.caltech.edu/ ooguri

Examination:

There will be a final exam but no midterm exam. The final exam, a closed-book three-hour take-home, will be handed out at the final class meeting. Unlike the homework, you may not discuss the exam problems with anyone else.

Grades:

Final grades will be based on the homework and the final exam, roughly at 70% homework and 30% final exam. Students will receive letter grades (A,B,C,D,E,F) unless they have arranged to take the course pass-fail.

Office hours:

I am available to answer your questions in my office. You can try to catch me whenever you like, or make an appointment if you prefer. Questions that are specific to homework solutions should be discussed with the grader first.

Additional References:

In addition to the textbook, you may find the following books to be useful.

H. Georgi, "Lie Algebras in Particle Physics," 2nd edition, ISBN 0-7382-0233-9.