

PHYS 6213: Advanced Particle Physics, Spring 2022

Instructor: Professor Chung Kao

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Office Hours: Monday 3:00 PM–5:00 PM

Class Times

January 18–May 06

MW 1:30 PM–2:45 PM in Nielsen Hall 103

Text: *Collider Physics: Revised Edition*

written by V. Barger and R. Phillips, published by Westview Press.

Supplementary Text: *Quantum Field Theory and the Standard Model*

written by Matthew D. Schwartz, published by Cambridge University Press.

Term Paper and Final Exam

Term Paper: Due May 6, 05:00 PM (Friday)

Final Exam: May 12, 08:00 AM–10:00 AM (Thursday)

Problem Sets

There will be five problem sets. A problem set will be handed out every two weeks on a Wednesday and it will be due two weeks later. NO late problem sets will be accepted.

Grading

Problem Sets 40%

Term Paper 20%

Final Exam 40%

Total 100%

My Expectations:

1. Always come to class and be prepared to discuss physics.
2. Complete assignments fully and on time.
3. Participate fully in class discussions.
4. Cooperate with classmates, encourage them, and treat them with respect.