Syllabus PHYS 417: Quantum Mechanics

- **Subjects**: Time-dependent perturbation theory (spontaneous emission and stimulated emission & absorption of photons), Berry’s phase, entanglement, quantization of the EM field.

- **Instructor**: S.J. van Enk, 251 Wil, svanenk@uoregon.edu

- **Office hours**: Thursdays and Fridays, 2pm-3pm. However, I have an open door policy and you can ask me questions about anything at any time.

- **TAs**: Eryn Cook (1), ecook2@uoregon.edu, Jingtao Zhang (0.5), jingtao@uoregon.edu.

- **Textbook**: D. J. Griffiths, *Introduction to Quantum Mechanics*, second edition. We’ll finish the book this term (skipping Chapters 8 and 12). There will also be notes on entanglement and on quantization of the EM field.

- **Homework**: Due every Friday by 5pm, except in the weeks of the Quiz and the Midterm. Late homework (handed in before Monday noon) counts for 75%. Your lowest homework score will be dropped.

  Collaboration is good, even encouraged, but you have to write down your solutions independently.

- **Grading**: Quiz (15%) [to be held Friday, April 25], Midterm (15%), Final (30%), Homework (40%). I will not curve any individual homework score or midterm score, but I do curve the final grade. If the scores are reasonable [as compared to previous years], the average score will correspond to a B, and one standard deviation below average will be a C.

- **Blackboard**: I use just one part of blackboard: **course documents** (solutions to problems, articles related to material, notes, statistics on homework/midterm scores)