

**Quantum Mechanics at IOP-VAST, Hanoi**  
**Instructor: Sally Seidel**  
**Professor of Physics**  
**University of New Mexico (Albuquerque)**



I offer thanks to the Vietnam Education Foundation who are supporting me to present this course.



My home, Albuquerque, is a city of population 900,000 in the Southwest desert of the USA.

To the east: the Rocky Mountains.  
To the west: the Rio Grande River.





Because the land is flat and the weather is dry, a balloon festival is held in Albuquerque every October.

A street near my home.





Typical  
buildings on  
the University  
of New Mexico  
campus



My husband Gordon and daughter Abby



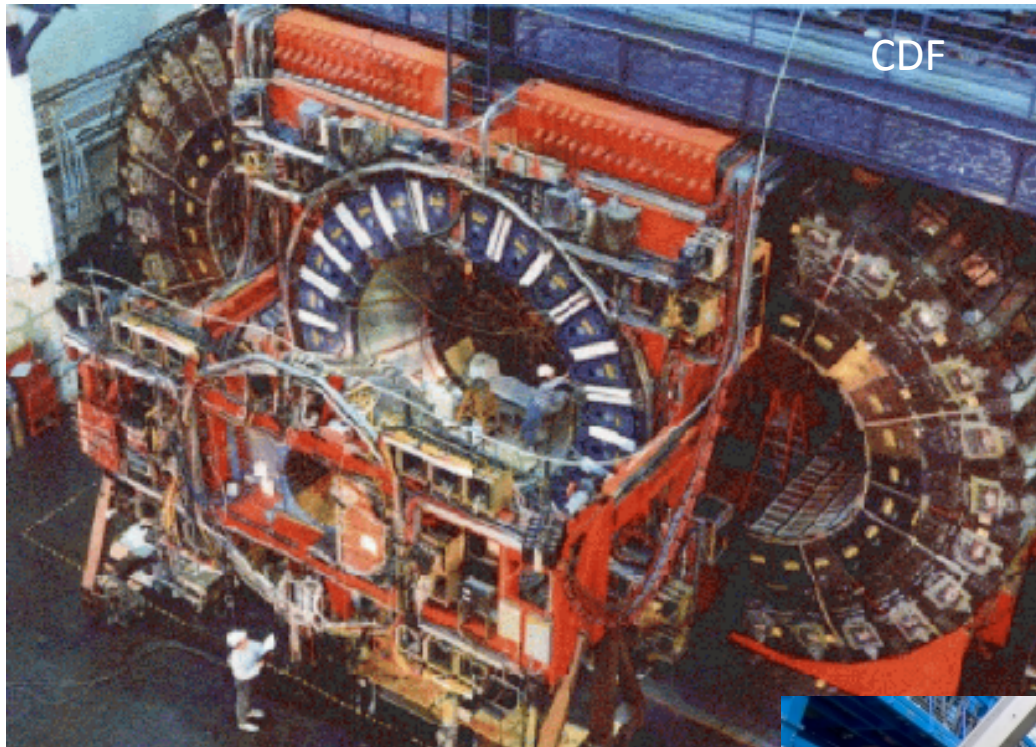
When I am not teaching, I conduct research in experimental particle physics. I work most closely with 6 people at the University of New Mexico:

2 graduate students, 1 undergraduate student, 1 postdoctoral fellow, 1 electrical engineer, and 1 research professor.

We collaborate on the

- ATLAS Experiment at the Large Hadron Collider (LHC)
- CDF Experiment at the Fermilab Tevatron
- CERN RD42 and RD50 Experiments, developing semiconductor detectors to image the tracks of elementary particles

Our research is focused on heavy quarks. I am happy to talk to you about particle physics anytime. Also it will be the subject of my second course later in 2011. I hope you will take that course too.



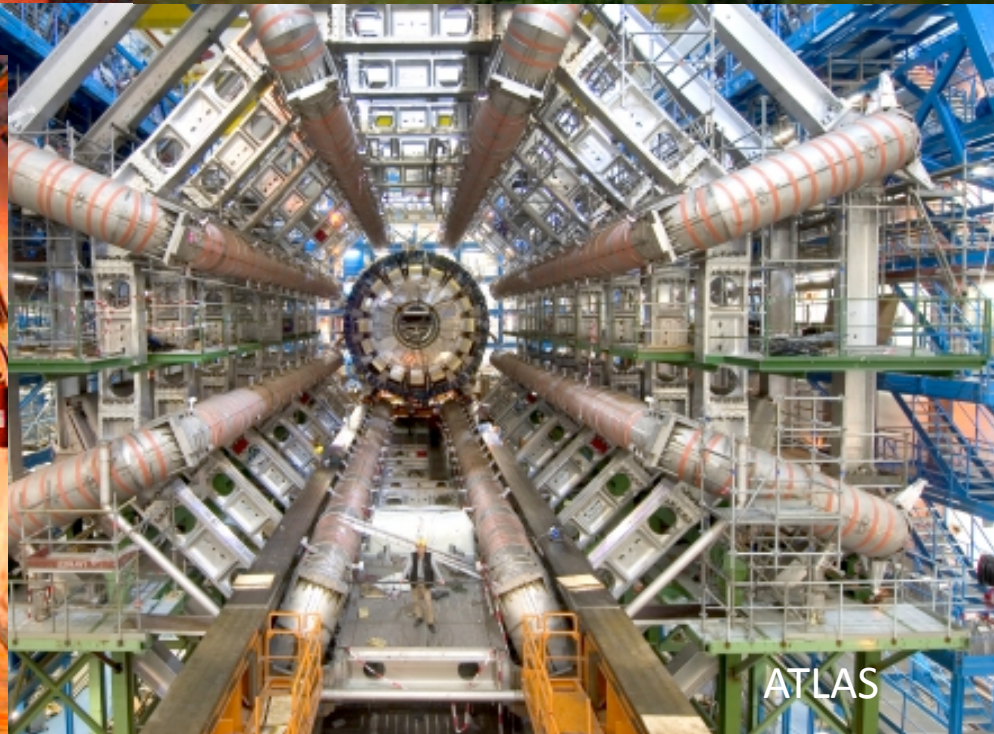
CDF



Fermilab



LHC



ATLAS

Some of my goals for this course:

We will meet every morning, Monday-Friday, from now until January 14. Every class meeting will include lecture, discussion, and problem-solving sessions. Some homework will be assigned every day and will be due on the following day.

Most of the course information is posted at <http://www-hep.phys.unm.edu/~seidel/VEF/>.

If you have questions about homework or any topic in physics, you are very welcome to contact me!

You may

- come to my office (IOP Second Floor). Come freely, without invitation!
- send me email: [seidel@phys.unm.edu](mailto:seidel@phys.unm.edu)

One of my goals is to meet you and get to know Vietnam. One way I can do this is to talk with you outside of the classroom. So: I would like to host 5 students for lunch each day after class. Please be my guests. Your only obligation is to show me where the best noodle restaurants are in Hanoi.