Known Projects for P335

You are expected to create or find your own project that really interests you by talking with faculty, grad students, looking at web pages. Here I list those Projects I know of. It's possible that a faculty member may be willing to take on a 2nd student on a related topic if the first is taken, so you may want to contact the faculty even if a student's name is listed for the topic. But, above all, go find or invent a project that truly interests you. Then please tell me, and I'll add it to the table.

Current Table of Projects (in process)

Title	Professor	Student
Plasmonic enhancement of infrared detectors	Philippe Guyot-Sionnest	TBD
Spin blockade in one-dimensional quantum dot	Philippe Guyot-Sionnest	TBD
chains		
Optical nonlinearity of nanoantenna	Philippe Guyot-Sionnest	TBD
Detection of Dark Matter with an Argon TPC:	Luca Grandi	TBD
development of a calibration system for PMT		
characterization		
Dark Matter detection with CCDs: neutron cal-	Paolo Privitera	TBD
ibration setup and SNOLAB data analysis		
Dark Matter detection with CCDs: 3D recon-	Paolo Privitera	TBD
struction from diffusion measurements		
Neutrinoless Double-Beta Decay Detector De-	Henry Frisch	TBD
velopment		
Development of a Whole-Body 50-psec Time-of-	Henry Frisch	TBD
Flight Positron-Emission Tomography Camera		
Synthesis and Theory of High Quantum-	Henry Frisch	TBD
Efficiency Bi-Alkali Photocathodes		
ATLAS Level 1 Boosted Object Trigger Elec-	David Miller	TBD
tronics Board		
The ADMX Axion Search Experiment	Stephen Meyer	TBD
Simulation, design, fabrication, and testing of	Abigail Vieregg	TBD
radio antennas for the Greenland Neutrino Ob-		
servatory		
Topological mechanics: from meta-materials to	William Irvine	TBD
meta-fluids		