

PHYSICS is the most fundamental science

and is the ideal major for those who want to understand the universe from the smallest to the largest scales.

A physics degree can be the foundation for a career in engineering, medical imaging, computing or finance. Undergraduates can earn a BA/BS in Physics, a BA in Astronomy or a BS in Astrophysics. Graduate students can earn a Masters or a PhD in Physics.

Expertise and interests of UH physicists

Free-electron lasers:
development and
applications

Experimental
neutrino physics
and astrophysics

Particle theory: Neutrinos, Supersymmetry,
Dark Matter and Cosmology

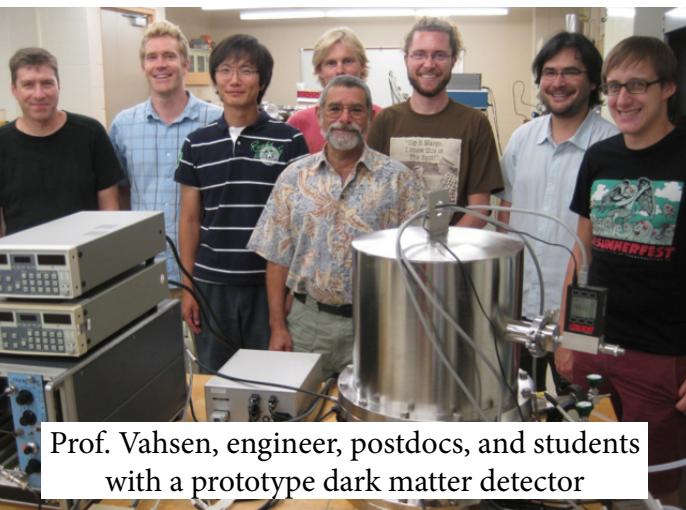
Particle physics experiments at
accelerators in Japan and China

Search for
dark matter

Electronics
Instrumentation

Chaos

Nanoscience



Prof. Vahsen, engineer, postdocs, and students with a prototype dark matter detector



ANITA balloon launch at South Pole

PHYSICS & ASTRONOMY

College of Natural Sciences
University of Hawai'i

2505 Correa Rd., Honolulu, HI 96822

PHONE

(808) 956-7087

FAX

(808) 956-7107

EMAIL

physics@hawaii.edu

www.phys.hawaii.edu



Canada-France-Hawaii telescope on Mauna Kea

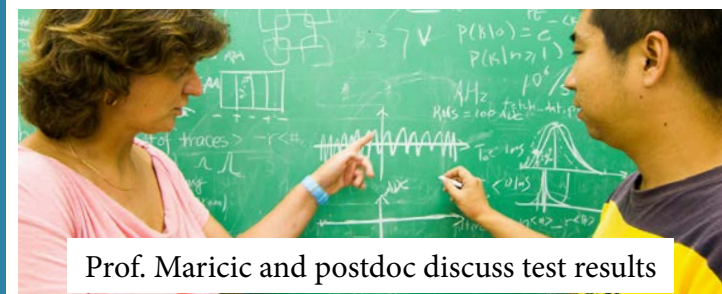
DEPARTMENT of
PHYSICS & ASTRONOMY
COLLEGE of NATURAL SCIENCES
UNIVERSITY of HAWAI'I AT MĀNOA



Prof. Sattler and students examine models of carbon nanomaterials



AMS experiment on the International Space Station



Prof. Maricic and postdoc discuss test results



UNIVERSITY of HAWAI'I
MĀNOA

The University of Hawai'i is an equal opportunity/affirmative action institution.



students in Vincent Peterson Library/Learning Center

WHY PHYSICS AND ASTRONOMY AT THE UNIVERSITY OF HAWAI'I AT MĀNOA?

The National Research Council rankings of graduate programs has placed UH Mānoa's Physics Department in the top 12 of all US programs.

Hawai'i is perfectly situated to take advantage of the cutting edge facilities in Pacific Rim countries. Due to its proximity to the some of the best telescopes in the world, Hawai'i is an ideal place to study astronomy and astrophysics.

PHYSICS AND ASTRONOMY COURSEWORK OFFERED

A full program of undergraduate and graduate courses is offered. For more details and information on the photos, see:

[**www.phys.hawaii.edu**](http://www.phys.hawaii.edu)

ADVISING SUPPORT FOR THE MAJORS

All students receive guidance from an academic advisor and are encouraged to discuss research and career opportunities with any of our faculty.

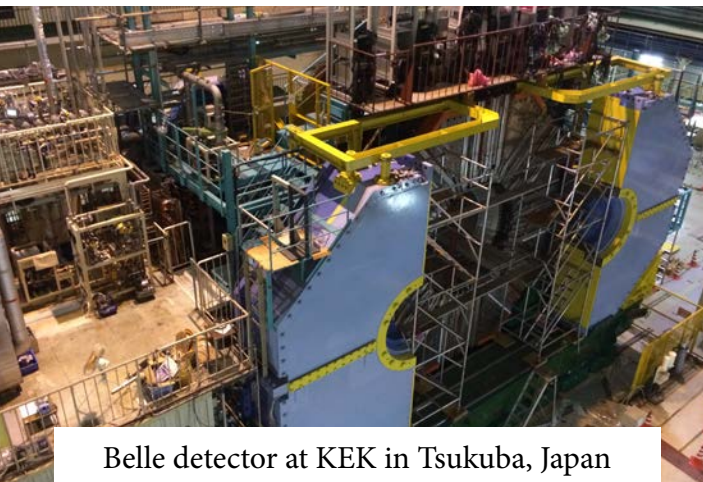
EDUCATIONAL BACKGROUND

Critical thinking and a strong high school background in mathematics and physics.

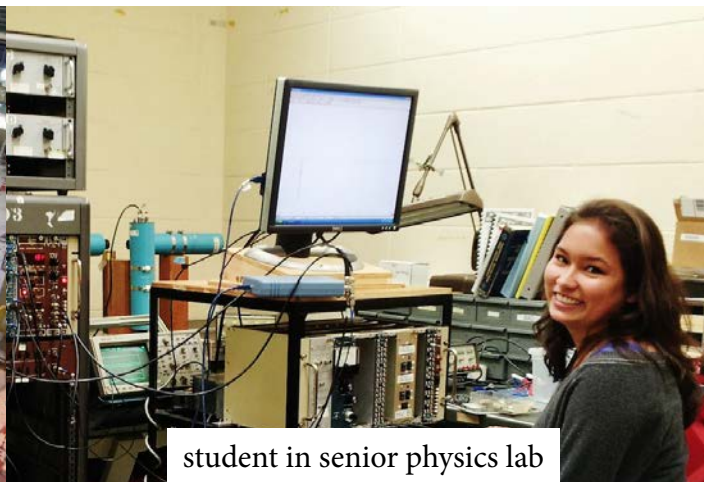
WHAT COURSES SHOULD YOU BE TAKING?

Open houses for high school students are held annually at the Physics and Astronomy Department and at the Institute for Astronomy.

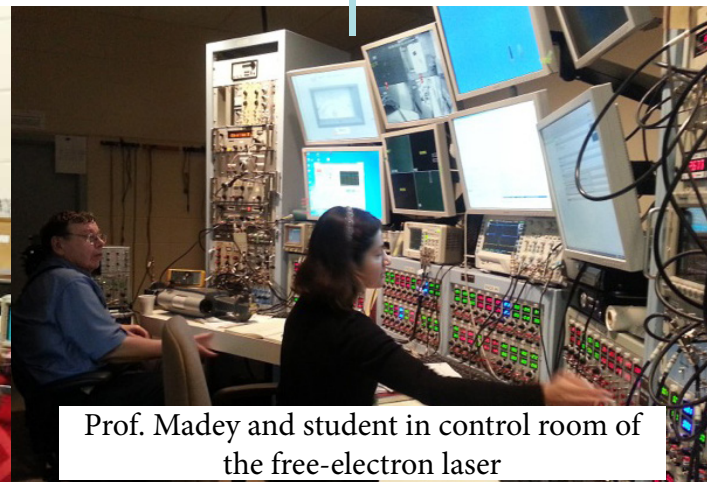
Physics leads to many spin-offs and currently used technologies; the World Wide Web is one example of cutting edge technology invented by physicists to share information.



Belle detector at KEK in Tsukuba, Japan



student in senior physics lab



Prof. Madey and student in control room of the free-electron laser