

PHYS 70010
Experimental Methods in Physics

A lecture and laboratory course on methods of all aspects of modern experimental physics designed around ten experiments in different areas of physics.

- Instrumentation
- Data acquisition
- Statistical treatment of data
- Equipment design
- Various detection systems
- Electronic pulse-processing
- Computer interfaces
- Ethics in physics research
 - Acquisition, management, sharing, and ownership of data.
 - Conflict of interest
 - Research misconduct (fabrication, falsification, plagiarism)
 - Publication practices and authorship
 - Peer review
 - Questionable research practices

Level:

- Graduate students: Core requirement.

Offered: Every spring.