Level: master

Course title: Radiation Detectors

Status: elective

ECTS: 9

Requirements: Nuclear Physics

Learning objectives

To introduce students to a broad spectrum of different radiation detection techniques, detectors and detection equipment.

Learning outcomes

After successfully completed Radiation Detector course, students should be qualified to work with very different types of detectors.

Syllabus

General features of detectors. Gas ionization detectors. Photographic emulsion, cloud chambers, bubble chambers. Scintillation detectors. Photomultipliers. Semiconductor detectors. Cherenkov detectors. Calorimeters. Neutron detectors.

Weekly teaching load				Other:
Lectures: 3	Exercises: 1	Other forms of teaching: 1	Student research:	