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RADIATION MEASUREMENT - 2020/1 - University of Surrey

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6.1 Introduction Radiation cannot be perceived by human senses. There are two basic types of instruments used for its detection: Particle counting instruments Dose measuring instruments The particle counting instruments are measuring the number of particles (electrons, alphas, protons, neutrons, etc.) or photons that give a signal in the detector, and give the result in [...]

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Module 6: Radiation Detection and Measurements ...

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Course Code PHY 663. Course Type Elective Level Graduate Year / Semester 2ndyear / 3rdsemester of graduate studies Teacher's Name Haralambos Tsertos ECTS 10 Lectures / week 2 (2 hours each) Laboratories / week. Course Purpose and Objectives This specialization's reading course is offered to postgraduate students, who are intended to accomplish a Master or Ph.D. thesis in the area of experimental nuclear physics.

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By the end of the course, the student must be able to: Explain interaction processes of ionising radiation and matter; Describe the production of a detection signal and its processing; Explain the operation of all types of commonly used detectors; Assess / Evaluate the detection system and method required for a specific measurement; Transversal skills

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Radiation detection | EPFL

Description. Known for its comprehensive coverage and up-to-date literature citations, this classic text provides students and instructors with the most complete coverage available of radiation detection and measurement. Over the decade that has passed since the publication of the 3rd edition, technical developments continue to enhance the instruments and techniques available for the detection and spectroscopy of ionizing radiation.

Radiation Detection and Measurement, 4th Edition | Wiley

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