

Environmental Radioactivity Diploma in Experimental Physics

Included as "Libre configuración" year 2009/2010 2nd Semester

6 ECTS

EXPERIMENTAL WORK at the LABORATORY Departamento de Física Moderna. Facultad de Ciencias. Lecturers: Saturnino Marcos and Ángel Mañanes (angel.mananes@unican.es)





I. Shielded Ge-(HP) detector for gamma and X-ray

II. Scintillator detector Nal(TI) for gamma radiation



III. Neutron activation analysis. Radioactive decay. Am-Be neutron source



IV. Gamma and X-ray dosimetry

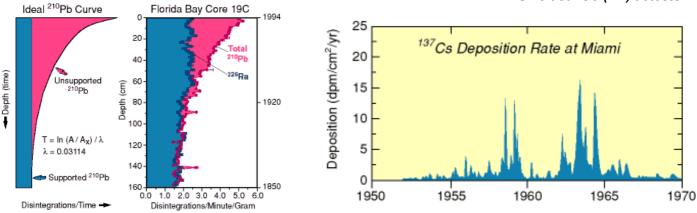




V. Alpha radiation detector (Semiconductor detector in a vacuum chamber)



I. Shielded Ge-(HP) detector



A weekly session at the Laboratory of Radioactivity (3-4 hours). Second Semester Adjustable Timetable. Faculty of Sciences. Five experiments. Two sessions per experiment: 1st session: Data capture, 2nd session: Numerical treatment of the data and discussion (10 sessions total) Evaluation: Deliver 5 reports with the results + Continuous assessment without examination Small groups (5 students / teacher). Individual realization of the experiments