CAEN n edu Educational Tools

Environmental KIT - Gamma Radiation Measurements



Discover the environment that surrounds us!



Be part of the project: develop your own experience and send an email to educational@caen.it

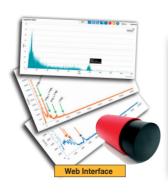
Environmental radioactivity is all around us. The public imagination often associates a negative feeling to this natural phenomenon.

To increase the familiarity with this field CAEN designed a **dedicated** educational kit, based on Silicon Photomultipliers (SiPM) matrix coupled to a Csl Scintillator.

Teaching and training experiences are performed starting from system calibration in terms of energy and by acquiring gamma spectra to study the emission and the composition of different samples.

Experiments

- · Energy Calibration
- · Environmental background measurements
- · Passive Radon measurements
- · Samples and Photopeaks identification
- **Environmental Sample** measurements

















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Modern Physics.

The **Educational Kit** allows to perform a series of experiments focused on radioactive

phenomena without using a radioactive source and a detector, but simulating the signals produced by the interaction of particles with the detecting unit.

