

Education Applications

Engaging Lessons

Bringing particle physics to life in the classroom. Advacam's MiniPIX EDU device and Educational Kit are transforming the way particle physics is taught and demonstrated in educational settings.

These innovative tools provide students with hands-on experience in observing and analyzing particle interactions, making complex concepts more accessible and engaging.



Interactive Experiments

Students can see radioactivity visualized on their computer screen originating from common materials and objects such as a piece of granite, ash or paper bag from vacuum cleaner or a face mask.

They can explore variation of the air radioactivity during the day, hunt for cosmic muons and check their direction or see how altitude affects presence of radiation types.

Education Kit

The ADVACAM Radiation Education Kit is a setup of radiation camera, radioisotope sources, and accessories to understand nuclear and particle physics better.

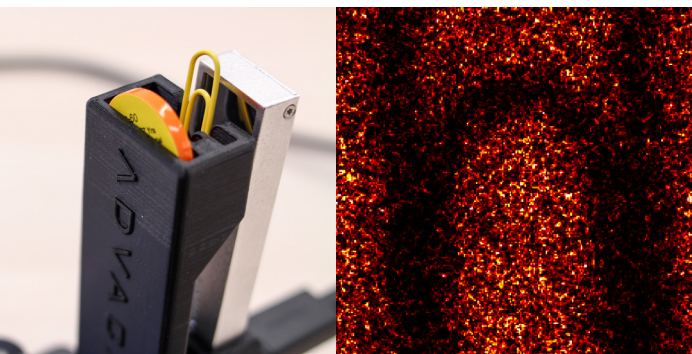
The kit brings the latest CERN technology to classrooms and allows students to discover the invisible world of radiation.



Education Kit

Revolutionizing nuclear education with NASA-approved technology

Content of the Radiation Education Kit provides all necessary equipment to conduct amazing experiments right in your classroom including camera holder, collimator and ionizing radiation sources.



A creative playground

Students can try to prepare their own (safe) radioactive source and try to construct the shielding against radiation it emits. They can check the laws of radioactive decay. Students can directly observe how different radiation types interact with matter and what happens then.

Discover individual particles

- α particle is helium nuclei without an electron shell. Its track appears as larger dot.
- β particle is an electron generated during radioactive decay. Its track appears as a zigzagging worm.
- γ particles are photons of invisible light. They leave tiny dots on the detector.

