

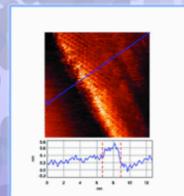
## Laboratori Nazionali di Frascati

Science, Technology, and Society
Scientific research at Frascati benefits society through educational programs, and through

technological developments in the fields of detectors, accelerators, synchrotron radiation, and material science.

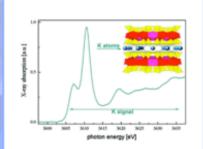


Educational initiatives at Frascati include program for teachers and students from primary school to university levels. Other outreach initiatives include guided tours, training seminars, and internships.

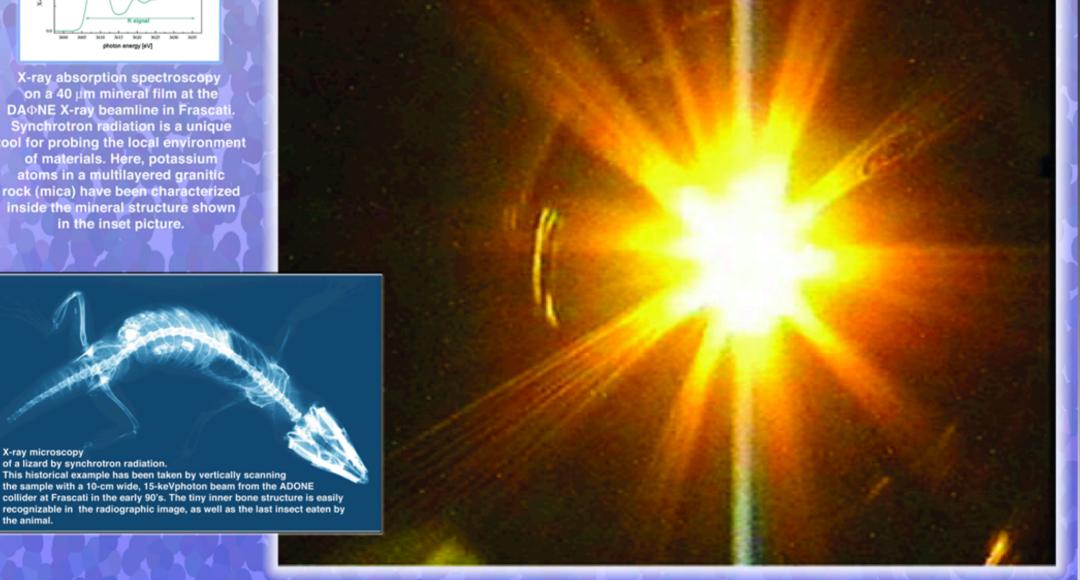




Physicists, engineers, and technicians unite physics and technology in the development of advanced detectors for next-generation experiments. The photo above shows the assembly of Monitor Drift Tubes, which are large detectors for charged particles that will cover an area of about 5000 m<sup>2</sup> in the TLAS experiment at CERN.



X-ray absorption spectroscopy on a 40 μm mineral film at the DAΦNE X-ray beamline in Frascati. Synchrotron radiation is a unique tool for probing the local environment of materials. Here, potassium atoms in a multilayered granitic rock (mica) have been characterized mineral structure shown in the inset picture.



The intense synchrotron radiation emitted from the bending magnet source at the DAΦNE electron ring using a current of 0.4 Ampere. The image, taken by a CCD camera, shows the visible light at the end of the infrared beamline, a pipe under ultra-high vacuum that is over 20 meters long and which encloses six gold coated mirrors.

X-ray microscopy