

MULTI-RADIATION INFRASTRUCTURES FOR SPACE APPLICATIONS: THE ENEA EXPERIENCE

ITALY



THURSDAY,
17 SEPTEMBER 2026
FROM 11.00 A.M. TO 12.30 P.M.



CONFERENCE ROOM **M7**,
M BUILDING, GROUND FLOOR,
IAEA, VIENNA INTERNATIONAL CENTRE

DESCRIPTION

The event will present the ENEA Distributed Irradiation Facility, an integrated research infrastructure that combines neutron, proton, electron, X-ray and gamma-ray irradiation capabilities to support space-related research and technology development.

Applications range from CubeSat irradiation and radiation effects on electronics to astrobiology, bioregenerative life support systems, radiobiology, advanced materials for space habitats, and energy solutions for future lunar and deep-space missions.

The Facility operates through collaborations with space agencies, research institutions, universities, industry, and international partners, contributing to the advancement of sustainable space exploration.

Moderator: Alessia Cemmi

Head Gamma Irradiation Facility Laboratory

SPEAKERS

Michele Croia

ENEA, Nuclear Department

Alfonso Santagata

ENEA, Nuclear Department

Gianfranco Longo

IMT School for Advanced Studies Lucca

Ilaria Di Sarcina

ENEA, Nuclear Department

Paolo Nenzi

ENEA, Nuclear Department

Francesca Antonelli

ENEA, Department for Sustainability