

## COST Action CA24131

European Network for Radiation-Detection-based Research  
and Innovation addressing increasing societal Challenges -  
ENRICH

### 1 st Call for applications for hosting STSMs

<b>Host Organization</b> (Name, website)	INFN-LNF, Istituto Nazionale di Fisica Nucleare, Laboratori Nazionali di Frascati  <a href="https://w3.Infn.infn.it/">https://w3.Infn.infn.it/</a>
<b>Location/Country</b>	Frascati (Rome), Italy
<b>Short description of the activities that could be done during the period of stay</b>	Characterization of X-ray detectors (stability, linearity, energy and time resolution) for spectroscopy: novel Silicon Drift Detectors of 1mm thickness; CZT detectors in various geometries; crystal spectrometer for extreme precision of X rays. Readout electronics and data analyses methods. Discussion of possible applications in science and for society.
<b>Available Resources</b> (Laboratories, experimental set-ups, beamlines, spectrometers, software, etc....)	Fully equipped laboratory for X-ray detectors characterization; beam Beam Test Facility for Characterization; offices; guesthouse; canteen.
<b>Specific instrumental details</b> ( $\gamma$ -, X-ray Detectors, X-ray sources, data acquisition systems, etc.)	Fully equipped Silicon Drift Detectors 1 mm thick with DAQ system and analyses programs; X-ray tube, multitarget elements for X-ray characterization; Beam Test Facility with electron/positron beams; CZT detector systems fully equipped with DAQ chain and data analyses methods. Crystal spectrometer fully equipped. Monte Carlo simulations.
<b>Relevance with ENRICH WGs</b>	Relevant to WG2, 3, 4 and 5
<b>Length of the STSM</b>	From 2 weeks to 1 months.
<b>Contact person</b> (name, surname, email)	Catalina Curceanu, Director of Research, head of the group  <a href="mailto:Catalina.Curceanu@LNF.INFN.IT">Catalina.Curceanu@LNF.INFN.IT</a>