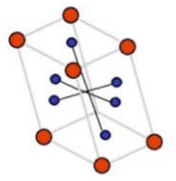




Università Politecnica delle Marche
Centro di Ricerca e Servizi di Analisi Globale dei Cristalli
ICRYS



DIISM

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Series of Seminars:

SCINTILLATOR DETECTORS:
from Theory to Applications
(Medicine, Security, High Energy Physics and Engineering)

Seminar #4

Dr. Luigi Montalto

Università Politecnica delle Marche, Ancona, Italy

Characterization and quality control of Crystals

Room **C_LAB**, May 15th 2018, 15.30 – 16.30

Facoltà di Ingegneria, Università Politecnica delle Marche,

Web-streaming: <https://meet.lync.com/univpm-pm/s1062746/NNFI77EN>

Topic

Industry, research and applications like medicine, security, high energy physics and engineering requires more and more performant tools. Scintillating crystals and general scintillators are critical parts of complex detection systems, which determine costs and performances of the systems themselves.

Assessment and quality control is therefore fundamental to support the development of scintillators and ensure the fulfillment of specifications of the crystals and control their production process.

The talk will focus on non-invasive measurement techniques (mostly based on optical, photoelastic and/or ultrasound approach), often, matched with other characterization techniques based on XRD, SEM and TEM with the aim of improving the quality of the products and controlling the production parameters.

Recent activities developed within ICRYS collaboration will provide an overview of the interdisciplinary approach which supports this research.

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