



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 160/3, May 9th 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 then fundamental to check and ensure the specifications of the crystals and their production process.

The talk will focus on non-invasive 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 having a more complete assessment of the crystal conditions.

As example of the impact of this interdisciplinary approach, a brief description of the recent activities of the ICRYS collaboration will be given.

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