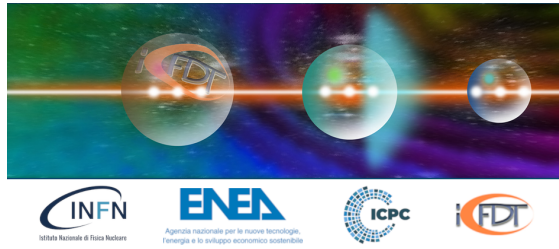


ICFDT7 - 7th International Conference on Frontier in Diagnostic Technologies



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Type: **Tutorial**

Use of the electromagnetic radiation for cultural Heritage

Monday, 21 October 2024 14:15 (30 minutes)

Electromagnetic Radiation, in a wide range of frequencies, from microwaves to X-rays, is a useful tool for non-destructive analysis of Cultural Heritage. In this tutorial the main principles of the interaction between radiation and matter, and their application in the field of cultural Heritage will be presented. Starting from X-ray radiography, X-ray fluorescence, to Lased Induced Breakdown Spectroscopy, UV fluorescence, Laser induced Fluorescence, Optical Coherent Tomography, RGB Imaging Topological Radar, Multispectral and Hyperspectral IR reflectometry, Optical and Raman Spectroscopy, up to THz imaging and spectroscopy, the main features and limits of each technique will be presented, to offer the public an overview of the possibilities of these technologies in the field of cultural heritage.

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