

Raman spectroscopy and its applications

Dr. Sabina Botti

*ENEA CR Frascati - Fusion and Technologies for Nuclear Safety and Security
Department Technologies for Safety and Health Division Photonic micro and nano
structure laboratory, Via E. Fermi 45, 00044 Frascati.*

Abstract

This seminar presents Raman spectroscopy and its applications with the following outline:

- 1) Basic principles of Raman spectroscopy
- 2) Raman spectroscopy applied to the molecules: classical model
- 3) Raman spectroscopy applied to the solids: quantistic model.
- 4) Raman spectroscopy and confocal microscope
- 5) Examples of Raman spectral imaging in 1D, 2D, 3D dimensions

DATE: 26.11.2020

TIME: 11:30 – 13:00