

Seminar

Prof. Roberto Pizzoferrato

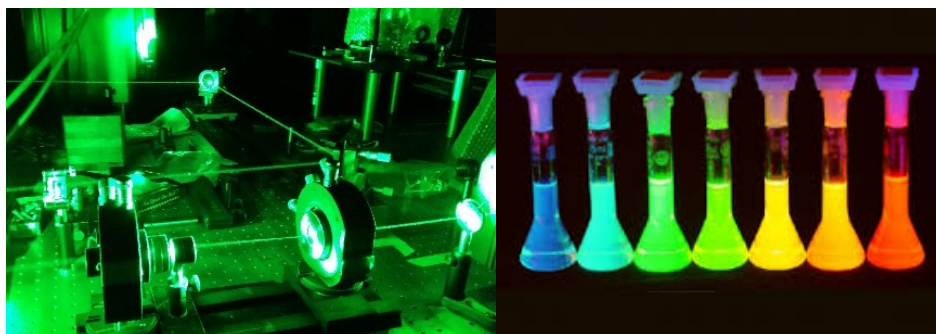
Fluorescence spectroscopy

DATE: 13.10.2020 VENUE: C3 TIME: 11:00 – 12:30



Abstract.

Fluorescence spectroscopy is a long-established method of investigation based on one of the most common, yet fascinating aspect of physical reality: light-matter interaction. It can provide valuable information on the structural, electronic, optical and dynamical properties of materials. On the other hand, it can help develop a number of applications in day-to-day life, ranging from TV displays to medical bioimaging, from energy-saving lamps to quality control, food analysis, fashion and entertainment. In this lecture, we will briefly discuss the underlying physical principles and the practical methods of this important analysis technique.



R. Pizzoferrato is professor of Physics. PhD in Solid-State Physics. His research area has covered the linear and nonlinear optical properties of innovative materials. In particular, he has carried out fluorescence spectroscopy in hybride organic/inorganic media, semiconductor and carbon-based nanostrures, polymers for integrated optics and photonic devices. He authored or co-authored more than 130 peer-reviewed international journal papers.