



# Appunti di Fisica '19 & Dottorato di Ricerca in Fisica

12 dicembre ore 15:00  
Sala seminari, CNR-IPCF

## Molecular fluorescence: from simple to complex

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The leading idea of the talk, inspired by the results of a recent study on the emission properties of supramolecular complexes between a porphyrin derivative and graphene oxide, is to remind how powerful are the fluorescence-based tools, even the simplest ones as the steady-state and time-resolved spectrofluorimetry, in the study of intermolecular photophysical processes.

After a very rapid historical survey of luminescence during the centuries preceding the knowledge of the atomic structure and the development of the quantum theory, the basic concepts describing the main de-activation processes of the molecular excited states are outlined. Among these, the photoinduced electron transfer mechanism is considered and discussed with an example.

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