

# **Controlling the Light, Unveiling the Matter**

Fulvio Parmigiani

University of Trieste (Italy), University of Cologne (Germany)

Mercoledì 9 gennaio 2019, ore 18.30

Sala Conferenze, ex Ospedale Militare

From the days of the ancient philosophers, light-related phenomena have been regarded as important tools for unveiling the complexity of the Universe and the intimate structure of the matter.

However, only in the last three Centuries the capability of comprehending and governing the light has unlocked the gate for an unmatched understanding of the physics of the electromagnetic radiation and its interaction with the matter.

Nowadays, synchrotron facilities, can be regarded as “super-microscopes” allowing an unprecedented tailoring and controlling of the photon behavior with a brightness that is thousands of billion times that of conventional light devices.

The novel experiments, planned with these advanced sources, will pave the road toward one of the most significant steps of the humankind knowledge, hence enduring the quest of the ancient philosophers.