



## Avviso di Seminario

**Giovedì 5 Luglio 2022**  
**Ore 17:00 - Aula 109**

# Advanced Computational Metrologies: Measuring the Shape of Ultrashort Pulses of Light

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Over the past 60 years, the formidable task of measuring the complex structure of coherent light has remained elusive. Fortunately, the last decade has seen the rise of a completely novel class of techniques based on computational imaging. These methods represent a paradigm shift away from experimental hardware toward sophisticated computer algorithms. In doing so, computational optics is paving the way to a new generation of high dimensional metrologies, finally providing a route to measure the most extreme events humans can create. This talk will detail the development of single-pulse, broadband computational metrologies specifically designed to measure ultrafast pulses of light across the electromagnetic spectrum.

