



UNIVERSITÀ DI PAVIA
Dipartimento di Fisica

Avviso di Seminario

Giovedì 5 Luglio 2022
Ore 17:00 - Aula 109

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

Prof. Daniel Adams – Colorado School of Mines, USA

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.

