

International Thematic School on

Ultrafast sources of coherent light: current research and emerging applications



March 23 to 27, 2026 The Houches Physics School, Chamonix Mont Blanc Valley, FR

The workshop is devoted to bringing prominent scientists in ultrafast and nonlinear optics together with the goal of, starting from fundamentals, providing overviews of recent research work, covering emerging applications, and devising future directions in the field. It aims at giving to PhD students and post-doctoral researchers a broad coverage, from pulse generation and manipulation to characterization, from the THz domain to the XUV, and describe applications spanning from time-resolved spectroscopy to secondary sources of light and particles. The workshop is motivated by the current blooming of ultrafast sources and applications, triggered by the wide availability of robust and high power femtosecond lasers, and the rapid development of methods to convert them into sources with a wide range of parameters in terms of pulsewidth, central wavelength, or control over the electric field. It will be a unique opportunity to get a unified vision of this research area, and contribute to developing new collaborations and cross-fertilizing the sources and applications communities.

We plan to invite top-level scientists working in the field of ultrafast optics and emerging applications. Among the possible invited speakers:

USA: Franck WISE, Logan WRIGHT, Michael CHINI, Yanne CHEMBO

Germany: Christoph HEYL, Nathalie PICQUE, Francesca CALEGARI, Clara SARACENO, Thomas UDEM

Sweden: Anne L'HUILLIER, Anne-Lise VIOTTI, Cord ARNOLD

France: Pierre BEJOT, Manuel JOFFRE, Juliette MANGENEY, Jérôme FAURE, Willem BOUTU, Sandrine LEVEQUE-FORT, John DUDLEY

UK: John TRAVERS

Italy: Mauro NISOLI, Giulio CERRULO

Canada : Giulio VAMPA, Real VALLEE

Attending a thematic school is a unique opportunity to learn, share and connect with top leaders in the field. The school is designed for students and researchers working or highly interested by the LNOI technology and for physicist participating in its development.

Application deadline (short motivation letter + CV): October 22, 2025

[Ultrafast sources of coherent light](#)

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