

SCHOOL ON EXTREME NONLINEAR OPTICS IN SOLIDS

- DEDICATED TO THE MEMORY OF STEPHAN W KOCH -

Sunday August 13, 2023 - Friday August 18, 2023

High intensity light interacting with semiconductor media creates new paradigms for the study of extreme nonlinear optics in solids.

Two classes of material systems, (1) strong THz field driven semiconductors and (2) ultrafast pulse driven dynamics in TMDCs are cases in point.

The Semiconductor Bloch (e.g. HHG in semiconductors) or Semiconductor Dirac Bloch (quasi-2D TMDCs) equations provide the necessary rigorous many-body foundation.

This school is intended for graduate students, advanced undergraduate students and even senior researchers seeking an accelerated exposure to this emerging area.

SCHOOL ORGANIZERS:

John McInerney (UCC, Ireland)

Jerome V. Moloney (University of Arizona, USA)

LECTURERS:

Thomas Brabec (University of Ottawa, Canada)

Steven Cundiff (University of Michigan, USA)

Rupert Huber (Regensburg University, Germany)

Frank Jahnke (Bremen University, Germany)

Mackillo Kira (University of Michigan, USA)

Miroslav Kolesik (University of Arizona, USA)

Torsten Meier (Paderborn University, Germany)

Hosted at:

University College Cork, Ireland

Funded by:

AFOSR (Air Force Office of Scientific Research), USA

In conjunction with:

Arizona Center for Mathematical Sciences, USA

Earl Bird Registration Fee: €550 (before March 10, 2023)

Late Registration Fee: €650 (after March 10, 2023)

Lodging and Lunches Included

Registration Fee without Lodging: €250

School is limited to 50 students

<https://conference.ucc.ie/international-summer-school-on-extreme-nonlinear-optics-in-solids/summer-school-registration>

For more information please contact: smarquardt@optics.arizona.edu or nini.schwart@ucc.ie



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