

School on Extreme Nonlinear Optics in Semiconductors and Gases
Cork, Ireland
August 16 – 21, 2020

Sunday August 16		Monday August 17		Tuesday August 18		Wednesday August 19		Thursday August 20		Friday August 21	
5pm – 7pm Welcome Reception	9am	Jerry Moloney Overview of school topics and highlights	9am	Thomas Brabec (1) Overview: strong field and attosecond physics in atoms and molecules	9am	Miro Kolesik (3) Light-matter interactions: From quantum to macro-scale.	9am	Stefan Schlauderer (1) []	9am	Sergei Tochitsky (2) []	
	10am	Break	10am	Break	10am	Thomas Brabec (3) High harmonic generation tomography of solids	10am	Break	10am	Break	
	10.15am	Miro Kolesik (1) Optical-pulse modeling for extreme NLO	10.15am	Stephan Koch (2) Bloch equations for atoms and semiconductors			10.15am	Stephan Koch (3) Semiconductors under very strong non-resonant excitation, HHG etc.	10.15am	Stephan Koch (4) Many-body induced dephasing and strong-field ionization in atomic gases	
	11.15am	Coffee/Tea Break	11.15am	Coffee/Tea Break	11am	Lunch	11.15am	Coffee/Tea Break	11.15am	Coffee/Tea Break	
	11.30am	Jens Biegert (1) Ultrafast and intense laser pulses – basics and methods	11.30am	Miro Kolesik (2) Anatomy of a pulse-propagation simulator	Afternoon Excursion/Dinner Coach pick up noon Evening Dinner at Inchydoney			11.30am	Daniele Faccio (2) Epsilon Near Zero – nonlinear characterization techniques	11.30am	Sergei Tochitsky (3) []
	12.30pm	Lunch	12.30pm	Lunch				12.30pm	Lunch	12.30pm	Lunch
	1.30pm	Stephan Koch (1) Basics of many-body quantum mechanics	1.30pm	Sergei Tochitsky (1) []				1.30pm	Thomas Brabec (4) Strong field ionization of solids and PHz electronics	1.30pm	Jens Biegert (3) Attosecond science – applications in molecular physics and condensed phase
	2.30pm	Break	2.30pm	Break				2.30pm	Break	2.30pm	Break
	2.45pm	Daniele Faccio (1) Epsilon Near Zero – basic physics and materials	2.45pm	Jens Biegert (2) Extreme nonlinear optics, strong field interaction – theoretical methods and experimental aspects				2.45pm	Poster Session	2.45pm	Daniele Faccio (3) Epsilon Near Zero nonlinear physics
	3.45pm	Coffee/Tea Break	3.45pm	Coffee/Tea Break				3.45pm	Coffee/Tea Break	3.45pm	Coffee/Tea Break
4pm	Andrew Hofstrand (1) []	4pm	Thomas Brabec (2) Strong field and attosecond physics in solids	4pm				Poster Session	4pm	School Wrap Up and Discussion	