



Detailed Program



SINAMAG

Simulación de Nanoestructuras MAGnéticas

QMADE



CLPU

CENTRO DE LÁSERES PULSADOS



Cofinanciado por
la Unión Europea



Europa impulsa
nuestro crecimiento



**VNIVERSIDAD
D SALAMANCA**

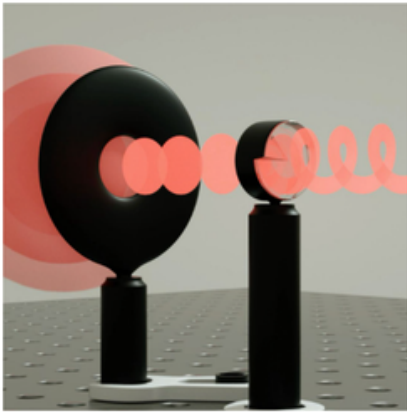


**Junta de
Castilla y León**

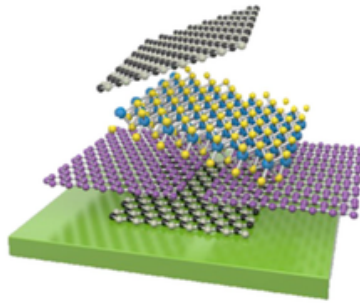
VNIVERSIDAD D SALAMANCA
Fundación General

Welcome to the 2nd International Summer School on Structured **Light** and **Matter**

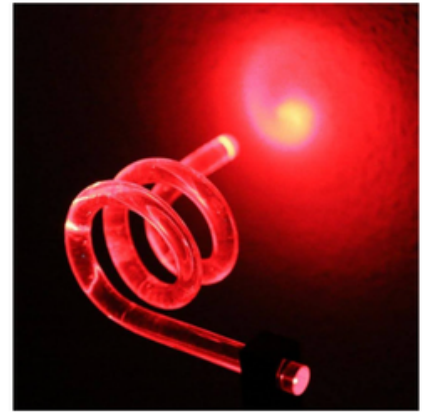
July 6-10, 2025. Salamanca, Spain



TOPIC 1:
STRUCTURED LIGHT



TOPIC 2:
STRUCTURED MATTER



TOPIC 3:
LIGHT-MATTER INTERACTION

INTERNATIONAL KEYNOTE SPEAKERS



Monday, July 6th - 9:30h

Alison Yao

University of Strathclyde (Glasgow, Scotland)

Feeling the force of structured light



Tuesday, July 7th - 9:30h

Burkard Hillebrands

Technical University of Kaiserslautern (Kaiserslautern, Germany)

Magnonic Bose-Einstein condensation and transport phenomena



Wednesday, July 8th - 9:00h

Nuno M. R. Peres

University of Minho (Minho, Portugal)

Hands-on light-matter interaction in 2D materials



Friday, July 10th - 15:30h

André J. Chaves

University of Minho (Minho, Portugal)

Plasmonic Crystal and Nonlocal Electrodynamics in Twisted Bilayer Graphene

Monday, July 6th

8:30 - 9:00	Registration <i>Edificio Trilingüe Room 2</i>
9:00 - 9:30	Introduction and welcome <i>Edificio Trilingüe Room 2 Free entry</i>
9:30 - 11:00	1.1 Keynote on Structure Light Open entry Feeling the force of structured light Alison Yao, University of Strathclyde (Scotland) <i>Edificio Trilingüe Room 2</i>
11:00 - 11:30	Coffee break (Group photo)
11:30 - 13:30	1.2 Hands on Python - Structured Light Luis Plaja, Carlos Hernández García, Rodrigo Martín Hernández <i>Edificio Trilingüe Room 0</i>
13:30 - 15:30	Lunch <i>Registered students Colegio Mayor Fray Luis de León</i>
15:30 - 17:15	1.2 Hands on Python, Structured Light Luis Plaja, Carlos Hernández García, Rodrigo Martín Hernández <i>Edificio Trilingüe Room 0</i>
17:15 - 17:30	Coffee Break
17:30 - 19:15	1.4 Ultrashort Laser Pulses Benjamín Alonso Fernández, Enrique Conejero Jarque <i>Edificio Trilingüe Room 2</i>
20:30 - 21:30	Guided tour to Salamanca <i>Departure point: Edificio Trilingüe (Registered participants)</i>



Tuesday, July 7th

9:30 - 11:00	2.1 Keynote on Structure Matter Open entry Magnonic Bose-Einstein condensation and transport phenomena Burkard Hillebrands, Technical University of Kaiserslautern (Germany) <i>Edificio Trilingüe Room 2</i>
11:00 - 11:30	Coffee break
	1.3 Experimental Generation of Structured Light Ignacio López Quintás, Aurora Crego García, David Marco Castillo <i>Group 1A: Edificio Trilingüe, Holography lab 1</i> <i>Group 2A: Edificio Trilingüe, Holography lab 2</i>
11:30 - 13:30 (see groups)	1.4 Ultrashort Laser Pulses Benjamín Alonso, Enrique Conejero <i>Group 3A: Edificio Trilingüe, ALF-Laser Laboratory</i>
13:30 - 15:30	Lunch <i>Registered students Colegio Mayor Fray Luis de León</i>
	1.3 Experimental Generation of Structured Light Ignacio López Quintás, Aurora Crego García, David Marco Castillo <i>Group 2A: Edificio Trilingüe, Holography lab 1</i> <i>Group 3A: Edificio Trilingüe, Holography lab 2</i>
15:30 - 17:15 (see groups)	1.4 Ultrashort Laser Pulses Benjamín Alonso, Enrique Conejero <i>Group 1A: Edificio Trilingüe, ALF-Laser Laboratory</i>
17:15 - 17:30	Coffee Break
	1.3 Experimental Generation of Structured Light Ignacio López Quintás, Aurora Crego García, David Marco Castillo <i>Group 3A: Edificio Trilingüe, Holography lab 1</i> <i>Group 1A: Edificio Trilingüe, Holography lab 2</i>
17:30 - 19:15 (see groups)	1.4 Ultrashort Laser Pulses Benjamín Alonso, Enrique Conejero <i>Group 2A: Edificio Trilingüe, ALF-Laser Laboratory</i>
20:30 - 21:00	Coffee meeting <i>Registered participants Manolita Café Bar</i>
21:00 - 22:00	Dinner <i>Registered students Colegio Mayor Fray Luis de León</i>

Wednesday, July 8th

9:00 - 10:00	3.1 Keynote on Light-Matter Interaction Open entry Hands-on light-matter interaction in 2D materials Nuno M. R. Peres, University of Minho (Portugal) <i>Edificio Trilingüe Room 2</i>
10:00 - 11:00	3.4 Introduction to Optical Fibers Íñigo Sola, Julio San Román <i>Edificio Trilingüe Room 2</i>
11:00 - 11:30	Coffee break
	3.2 Optoelectronic measurements of quantum devices José M. Caridad, Óscar Castelló <i>Group 1B: Edificio Multiuso I+D+i Laboratorio de Materiales Cuánticos, floor 0</i>
11:30 - 12:15 (see groups)	2.2 Fabrication of 2D quantum materials and van der Waals heterostructures Juan A. Delgado-Notario, Namrata Saha <i>Group 2B: Edificio Multiuso I+D+i Laboratorio de Materiales Cuánticos, floor -3</i> <i>Group 3B and Group 4B free time</i>
	3.2 Optoelectronic measurements of quantum devices José M. Caridad, Óscar Castelló <i>Group 2B: Edificio Multiuso I+D+i Laboratorio de Materiales Cuánticos, floor 0</i>
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Wednesday, July 8th

13:30 - 15:30

Lunch

Registered students | Colegio Mayor Fray Luis de León

15:30 - 16:20
(see groups)

3.2 Optoelectronic measurements of quantum devices

José M. Caridad, Óscar Castelló

Group 3B: Edificio Multiuso I+D+i | Laboratorio de Materiales Cuánticos, floor 0

2.2 Fabrication of 2D quantum materials and van der Waals heterostructures

Juan A. Delgado-Notario, Namrata Saha

Group 4B: Edificio Multiuso I+D+i | Laboratorio de Materiales Cuánticos, floor -3

Group 1B and Group 2B free time

16:20 - 17:15
(see groups)

3.2 Optoelectronic measurements of quantum devices

José M. Caridad, Óscar Castelló

Group 4B: Edificio Multiuso I+D+i | Laboratorio de Materiales Cuánticos, floor 0

2.2 Fabrication of 2D quantum materials and van der Waals heterostructures

Juan A. Delgado-Notario, Namrata Saha

Group 3B: Edificio Multiuso I+D+i | Laboratorio de Materiales Cuánticos, floor -3

Group 1B and Group 2B free time

17:15 - 17:30

Coffee break

17:30 - 19:15

2.2 Hands-on tutorial on magnetic nanostructures

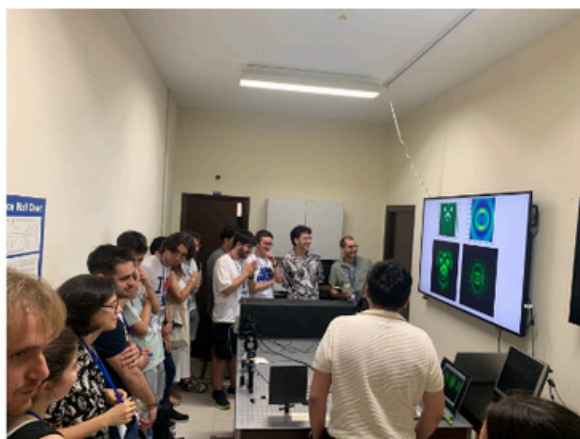
Eduardo Martínez, Víctor Raposo, Rocío Yanes

Edificio Trilingüe | Room 0

21:00 - 22:30

Student & Researcher Interaction

Registered participants, cocktail included | Hospedería de Anaya



Thursday, July 9th

9:00 - 9:30	Going to CLPU <i>Bus Registered participants</i> <i>Departure point: Museo de Historia de la Automoción de Salamanca</i>
9:30 - 12:30	Visit to Centro de Láseres Pulsados (CLPU)
12:30 - 13:30	Return from the CLPU
13:30 - 15:30	Lunch <i>Registered students Colegio Mayor Fray Luis de León</i>
15:30 - 17:15	2.3 Hands-on tutorial on magnetic nanostructures Eduardo Martínez, Víctor Raposo, Rocío Yanes <i>Edificio Trilingüe Room 0</i>
17:15 - 17:30	Coffee break
17:30 - 18:30	3.3 Material processing with Ultrashort Laser Pulses Javier Rodríguez, Pablo Moreno, Carolina Romero <i>Edificio Trilingüe Room 2</i>
18:30 - 19:15	2.4 Nanoarchitectures and Material Design Roberto de Guzmán de Villoria, Jorge Bautista <i>Edificio Trilingüe Room 2</i>
21:00 - 22:00	Dinner <i>Registered students Colegio Mayor Fray Luis de León</i>



Friday, July 10th

	3.4 Material processing with Ultrashort Laser Pulses Javier Rodríguez Vázquez, Pablo Moreno, Carolina Romero <i>Group 1B: Edificio Trilingüe Laboratorio Láser</i>
9:00 - 10:00 (see groups)	3.5 Introduction to Optical Fibers Íñigo Sola, Julio San Román <i>Groups 3B & 4B: Edificio Trilingüe Laboratorio de Óptica, door T0102</i> <i>Group 2B free time</i>
	3.4 Material processing with Ultrashort Laser Pulses Javier Rodríguez Vázquez, Pablo Moreno, Carolina Romero <i>Group 2B: Edificio Trilingüe Laboratorio Láser</i>
10:00 - 11:00 (see groups)	3.5 Introduction to Optical Fibers Íñigo Sola, Julio San Román <i>Groups 3B & 4B: Edificio Trilingüe Laboratorio de Óptica, door T0102</i> <i>Group 1B free time</i>
11:00 - 11:30	Coffee break
	3.4 Material processing with Ultrashort Laser Pulses Javier Rodríguez Vázquez, Pablo Moreno, Carolina Romero <i>Group 3B: Edificio Trilingüe Laboratorio Láser</i>
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12:30 - 13:30 (see groups)	3.5 Introduction to Optical Fibers Íñigo Sola, Julio San Román <i>Groups 1B & 2B: Edificio Trilingüe Laboratorio de Óptica, door T0102</i> <i>Group 3B free time</i>
13:00 - 15:30	Lunch <i>Edificio Trilingüe Room 2 / Colegio Mayor Fray Luis de León</i>
15:30 - 16:30	3.2 Keynote on Light-Matter Interaction Open entry Plasmonic Crystal and Nonlocal Electrodynamics in Twisted Bilayer Graphene André J. Chaves, University of Minho (Portugal) <i>Edificio Trilingüe Room 2</i>

Organized by

USAL LUMES



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Fundación General

The Summer School will be held in the research groups and centers integrated into LUMES: Laser Applications and Photonics (ALF); Quantum Materials and Devices (QMADE); Research Group on Simulation of Magnetic Nanostructures (SINAMAG); Pulsed Laser Center (CLPU); Laboratory of Mechanical Engineering Applied to Design, Manufacturing and Applications of Composite Materials (LAMCOM).



QMADE

SINAMAG

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Junta de
Castilla y León