

Calendar of I-PHOQS Individual Lectures and Short Courses

PhD students enrolling in I-PHOQS have access to lectures designed to broaden their expertise on cutting-edge research subjects.

The format comprises both **individual lectures** and **short courses**. Short courses consist of 2 or 3 lectures, where each lesson is preparatory for the next one.

All activities are offered **online in synchronous mode** to allow students to engage with the teacher.

The list of all activities and the calendar are given in the following pages.

List of individual lectures

Lecture title	Teacher	Teacher email	Teacher Institution	Date	Virtual classroom link
Ultrafast transient absorption spectroscopy	Giulio Cerullo	giulio.cerullo@polimi.it	POLIMI-CUSBO	8 April 2024 10:00-12:00	Link to the virtual classroom
Ultrashort pulse characterization techniques: from femtosecond to attosecond	Rocio Borrego Varillas	rocio.borrego@polimi.it	CNR-IFN (Milan)	9 April 2024 10:00-12:00	Link to the virtual classroom
Adaptive optics for biomedical imaging	Stefano Bonora	stefano.bonora@cnr.it	CNR-IFN (Padua)	16 April 2024 14:00-16:00	Link to the virtual classroom
Monochromatization of ultrafast pulses	Luca Poletto	luca.poletto@cnr.it	CNR-IFN (Padua)	14 May 2024 10:00-12:00	Link to the virtual classroom
Design of high-efficiency EUV multilayer coatings	Alain Jody Corso	alainjody.corso@cnr.it	CNR-IFN (Padua)	21 May 2024 14:30-16:30	Link to the virtual classroom
Advances in Fluorescence Spectroscopy	Cosimo D'Andrea	cosimo.dandrea@polimi.it	POLIMI-CUSBO	29 May 2024 10:00-12:00	Link to the virtual classroom

List of short courses

Short course title	Teachers	Teacher email	Teacher Institution	Date	Virtual classroom link
Photodetection: from classical shot noise limit to quantum squeezing	Francesco Cappelli, Tecla Gabrielli	francesco.cappelli@ino.cnr.it	CNR-INO (Florence)	5, 12 February 2024 10:00-13:00	Link to the virtual classroom
		tecla.gabrielli@ino.cnr.it			
Photovoltaics: materials and devices	Salvatore Antonino Lombardo	salvatore.lombardo@cnr.it	CNR-IMM (Catania)	20 March, 9:30-11:30	Link to the virtual classroom
				22 March, 9:30-11:30	
Introduction to soft-X Ray optics	Luca Poletto, Paola Zuppella, Alain Jody Corso	luca.poletto@cnr.it	CNR-IFN (Padua)	6, 8, 10 May 2024 14:00-17:00	Link to the virtual classroom
		paola.zuppella@cnr.it			
		alainjody.corso@cnr.it			
Optical design methodologies for high-intensity applications	Fabio Frassetto	fabio.frassetto@cnr.it	CNR-IFN (Padua)	13, 15, 17 May 2024 14:00-17:00	Link to the virtual classroom
Introduction to cold-atom based quantum simulation and light-matter interfaces	Natalia Bruno, Pietro Lombardi Maximilian Schemmer	natalia.bruno@ino.cnr.it	CNR-INO (Florence)	4, 5, 6 June 2024 14:00-16:00	Link to the virtual classroom
		lombardi@lens.unifi.it			
		schemmer@lens.unifi.it			
Optical frequency comb synthesizer from UV to THz	Francesco Cappelli, Tecla Gabrielli	francesco.cappelli@ino.cnr.it	CNR-INO (Florence)	18, 25 September 2024, 10:00-13:00	Link to the virtual classroom
		tecla.gabrielli@ino.cnr.it			
Introduction to adaptive optics	Stefano Bonora	stefano.bonora@cnr.it	CNR-IFN (Padua)	Autumn 2024 (exact dates to be determined)	Link to the virtual classroom



2024

FEBRUARY

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
29	30	31	01	02	03	04
05	06	07	08	09	10	11
Photodetection: from classical shot noise limit to quantum squeezing PART 1 Teachers: Francesco Cappelli/Tecla Gabrielli 10:00 - 13:00						
12	13	14	15	16	17	18
Photodetection: from classical shot noise limit to quantum squeezing PART 2 Teachers: Francesco Cappelli/Tecla Gabrielli 10:00 - 13:00						
19	20	21	22	23	24	25
26	27	28	29	01	02	03
	SHORT COURSE LECTURE					



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I-PHOQS
INTEGRATED INFRASTRUCTURE INITIATIVE
IN PHOTONIC AND QUANTUM SCIENCES

2024

MARCH

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
26	27	28	29	01	02	03
04	05	06	07	08	09	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
		Photovoltaics: materials and devices - PART 1 Teachers: Salvatore Lombardo 9:30 - 11:30		Photovoltaics: materials and devices - PART 2 Teachers: Salvatore Lombardo 9:30 - 11:30		
25	26	27	28	29	30	31
	SHORT COURSE					
	LECTURE					



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IN PHOTONIC AND QU

2024

APRIL

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
01	02	03	04	05	06	07
08	09	10	11	12	13	14
Ultrafast transient absorption spectroscopy Teacher: Giulio Cerullo 10:00 - 12:00	Ultrashort pulse characterization techniques: from femtosecond to attosecond Teacher: Rocio Borrego Varillas 10:00 - 12:00					
15	16	17	18	19	20	21
	Adaptive optics for biomedical imaging Teacher: Stefano Bonora 14:00 - 16:00					
22	23	24	25	26	27	28
29	30	01	02	03	04	05
	SHORT COURSE					
	LECTURE					



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2024

MAY

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
29	30	01	02	03	04	05
06	07	08	09	10	11	12
Introduction to soft-X Ray optics - PART 1 Teacher: Luca Poletto 14:00 - 17:00		Introduction to soft-X Ray optics - PART 2 Teacher: Paola Zuppella 14:00 - 17:00		Introduction to soft-X Ray optics - PART 3 Teacher: Alain Jody Corso 14:00 - 17:00		
13	14	15	16	17	18	19
Optical design methodologies for high-intensity applications - PART 1 Teacher: Fabio Frassetto 14:00 - 17:00	Monochromatization of ultrafast pulses Teacher: Luca Poletto 10:00 - 12:00	Optical design methodologies for high-intensity applications - PART 2 Teacher: Fabio Frassetto 14:00 - 17:00		Optical design methodologies for high-intensity applications - PART 3 Teacher: Fabio Frassetto 14:00 - 17:00		
20	21	22	23	24	25	26
	Design of high-efficiency multilayer coatings Teacher: Alain Jody Corso 14:30 - 16:30					
27	28	29	30	31	01	02
		Advances in Fluorescence Spectroscopy Teacher: Cosimo D'Andrea 10:00 - 12:00				
	SHORT COURSE LECTURE					



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2024 JUNE

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
27	28	29	30	31	01	02
03	04	05	06	07	08	09
	Introduction to cold-atom based quantum simulation and light-matter interfaces - PART 1 Teacher: Pietro Lombardi 14:00 - 16:00	Introduction to cold-atom based quantum simulation and light-matter interfaces - PART 2 Teacher: Natalia Bruno 14:00 - 16:00	Introduction to cold-atom based quantum simulation and light-matter interfaces - PART 3 Teacher: Maximilian Schemmer 14:00 - 16:00			
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
SHORT COURSE LECTURE						



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2024

SEPTEMBER

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
26	27	28	29	30	31	01
02	03	04	05	06	07	08
09	10	11	12	13	14	15
16	17	18 Optical frequency comb synthesizer from UV to THz - PART 1 Teachers: Francesco Cappelli/Tecla Gabrielli 10:00 - 13:00	19	20	21	22
23	24	25 Optical frequency comb synthesizer from UV to THz - PART 2 Teachers: Francesco Cappelli/Tecla Gabrielli 10:00 - 13:00	26	27	28	29
SHORT COURSE LECTURE						