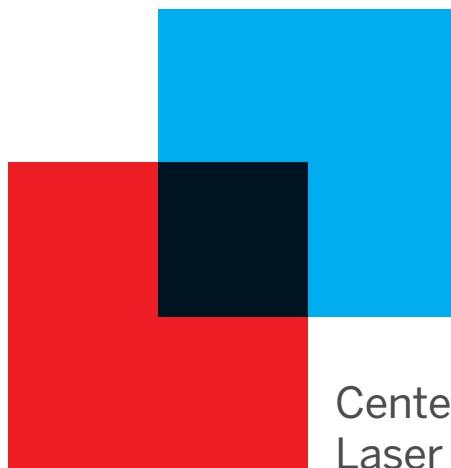


PIER Graduate Week 2023

Interdisciplinary lecture
and workshop week for PhD
students



16–23 OCT '23

Center for Free-Electron
Laser Science, SR I-V



Partnership of
Universität Hamburg and DESY



Course Overview

Programme / registration:
graduateschool.pier-hamburg.de/gradweek2023

	Time	Course	Monday, 16 OCT	Tuesday, 17 OCT	Wednesday, 18 OCT	Thursday, 19 OCT
Morning sessions	09:00 – 10:30	/ Course 1: Physics and artificial intelligence SR II-III	Gregor Kasieczka, Universität Hamburg Physics & AI: Foundations and Applications of Machine Learning in Fundamental Physics Research	Gregor Kasieczka, Universität Hamburg Physics & AI: Foundations and Applications of Machine Learning in Fundamental Physics Research	Gregor Kasieczka, Universität Hamburg Physics & AI: Foundations and Applications of Machine Learning in Fundamental Physics Research	Gregor Kasieczka, Universität Hamburg Physics & AI: Foundations and Applications of Machine Learning in Fundamental Physics Research
	10:30 – 11:00		Coffee break			
	11:00 – 12:30	/ Course 1: Physics and artificial intelligence SR II-III	Gregor Kasieczka, Universität Hamburg Physics & AI: Foundations and Applications of Machine Learning in Fundamental Physics Research	Gregor Kasieczka, Universität Hamburg Physics & AI: Foundations and Applications of Machine Learning in Fundamental Physics Research	Gregor Kasieczka, Universität Hamburg Physics & AI: Foundations and Applications of Machine Learning in Fundamental Physics Research	Gregor Kasieczka, Universität Hamburg Physics & AI: Foundations and Applications of Machine Learning in Fundamental Physics Research
	12:30 – 14:00		Lunch break			
Afternoon sessions	14:00 – 15:00	/ Course 2: The physics of the life sciences: Connections of fundamental physics to modern biology & medicine SR II-III	Alessandra Picchiotti, Universität Hamburg Introduction: Spectroscopy for the life sciences	Helen Ginn, DESY Structural biology, crystallography and cryo EM	Jerome Mutterer, Strasbourg University Imaging in medicine and biotechnology (t.b.c.)	Maya Topf, HPI / UKE / CSSB Hamburg Data science for the life sciences, an holistic approach, part 1 (online)
	15:00 – 15:15		Coffee break			
	15:15 – 16:15	/ Course 2: The Physics of the life sciences: Connections of fundamental physics to modern biology & medicine SR II-III	Susann Quinn, University College Dublin Time resolved spectroscopy	Pedram Mehrabi, Universität Hamburg Crystallography, from physics to proteins	Elisabetta Gargioni / Antonio Virgilio Failla, UKE Hamburg Advanced imaging techniques (t.b.c.)	N.N. Data science for the life sciences, an holistic approach, part 2 (online)
	15:15 – 16:15		Coffee break			



