

PIER Graduate Week 2019

Interdisciplinary lecture
and workshop week for PhD
students



23 – 26
SEPT 2019

CFEL
/ Bahrenfeld Campus
/ Hamburg



Partnership of
Universität Hamburg and DESY



Course Overview Graduate Week 2019

Programme & registration:
graduateschool.pier-hamburg.de/gradweek2019

Morning sessions: Introductory courses
Registration open from 8:30

Time	Course	Monday, 23 SEPT	Tuesday, 24 SEPT	Wednesday, 25 SEPT	Thursday, 26 SEPT
09:00 – 10:30	/ A1 Introductory course Particle & Astroparticle Physics	Gudrid Moortgat-Pick, Universität Hamburg "Quantum Universe: Particle Physics for Pedestrians" SR III	Gudrid Moortgat-Pick, Universität Hamburg "Quantum Universe: Understanding Mass for Runners" SR III	Gudrid Moortgat-Pick, Universität Hamburg "Quantum Universe: Accelerators and Experiments Decathlon" SR III	Gudrid Moortgat-Pick, Universität Hamburg "Quantum Universe: Olympics at High Precision and High Energy - Frontier" SR III
	/ A2 Introductory course Nanoscience	Francesco P. Massel, University of South- Eastern Norway "Nanoscience: quantum physics goes "macroscopic" SR II	Zlatan Akšamija, UMass Amherst "Nanophononics: dissipation and thermoelectric energy conversion in nanoscale devices" SR II	Andreas K. Hüttel, Regensburg University "Electronic properties of carbon nanotubes" SR II	Andreas K. Hüttel, Regensburg University "Electronic properties of carbon nanotubes" SR II
10:30 – 11:00	Coffee break				
11:00 – 12:30	/ B1 Introductory course Infection & Structural Biology	Boris Krichel, HPI Hamburg "Mass spectrometry goes viral – an introduction to structural MS" SR III	Vadim Kotov, UKE/CSSB, Hamburg "Cryo-electron microscopy: the future is here" SR III	Maria Garcia Alai, EMBL/CSSB Hamburg "Protein quality control for structural biology" SR III	Eike Schulz, MPSD Hamburg "Time-resolved X-ray crystallography" SR III
	/ B2 Introductory course Photon Science	Franz Kärtner, DESY/ Universität Hamburg "Ultrafast Optical and X- ray Sources" SR II	Franz Kärtner, DESY/ Universität Hamburg "Ultrafast Optical and X- ray Sources" SR II	Franz Kärtner, DESY/ Universität Hamburg "Ultrafast Optical and X- ray Sources" SR II	Franz Kärtner, DESY/ Universität Hamburg "Ultrafast Optical and X- ray Sources" SR II
12:30 – 14:00	Lunch break				

Time	Course	Monday, 23 SEPT	Tuesday, 24 SEPT	Wednesday, 25 SEPT	Thursday, 26 SEPT
14:00 – 15:30	/ C1 Focus course Particle & Astroparticle Physics	Geoffrey Mullier, Lund University "Most of the things you might have wanted to know about detectors* (*But were afraid to ask)" SR III	Geoffrey Mullier, Lund University "Most of the things you might have wanted to know about detectors* (*But were afraid to ask)" SR III	Geoffrey Mullier, Lund University "Most of the things you might have wanted to know about detectors* (*But were afraid to ask)" SR III	Geoffrey Mullier, Lund University "Most of the things you might have wanted to know about detectors* (*But were afraid to ask)" SR III
	/ C2 Focus course Photon Science	Christine Silberhorn, Universität Paderborn "Quantum optics and information science in multi-dimensional systems" SR II	Christine Silberhorn, Universität Paderborn "Quantum optics and information science in multi-dimensional systems" SR II	Eleftherios Goulielmakis, Universität Rostock "Can lasers allow us to see electrons?" SR II	Eleftherios Goulielmakis, Universität Rostock "Can lasers allow us to see electrons?" SR II
	/ C3 Transferable skills (group A)	Elena Kaufman "Presentation skills: Vocal Power and Physical Presence" ZOQ seminar room	Elena Kaufman "Presentation skills: Vocal Power and Physical Presence" ZOQ seminar room	Elena Kaufman "Presentation skills: Vocal Power and Physical Presence" ZOQ seminar room	Elena Kaufman "Presentation skills: Vocal Power and Physical Presence" ZOQ seminar room
	/ C4 Transferable skills (group A)	Diana Deterra "Career orientation for PhD students" SR I	Diana Deterra "Career orientation for PhD students" SR I	Diana Deterra "Career orientation for PhD students" SR I	Diana Deterra "Career orientation for PhD students" SR I
15:30 – 16:00	Coffee break				
16:00 – 17:30	/ D1 Focus course Infection & Structural Biology	Charlotte Uetrecht, HPI Hamburg & European XFEL "Flying viruses – from biophysical to structural characterization" SR III	Jan Kosinski, EMBL Hamburg/Heidelberg, CSSB "Integrative modeling based on electron microscopy data" SR III	Henning Tidow, Universität Hamburg "Membrane protein structural biology" SR III	Sebastian Busch, MLZ Garching & HZG "Small-angle scattering for large-scale structures" SR III
	/ D2 Focus course Nano Science	Francesco P. Massel, University of South-Eastern Norway "Macroscopic quantum states in optomechanics" SR II	Zlatan Akšamija, UMass Amherst "Collective and Extrinsic Effects on Phonon Transport in 2D Materials" SR II	Andreas K. Hüttel, Regensburg University "Carbon nanotubes for nano-electro- and optomechanics" SR II	Andreas K. Hüttel, Regensburg University "Carbon nanotubes for nano-electro- and optomechanics" SR II
	/ D3 Transferable skills (group B)	Elena Kaufman "Presentation skills: Vocal Power and Physical Presence" ZOQ seminar room	Elena Kaufman "Presentation skills: Vocal Power and Physical Presence" ZOQ seminar room	Elena Kaufman "Presentation skills: Vocal Power and Physical Presence" ZOQ seminar room	Elena Kaufman "Presentation skills: Vocal Power and Physical Presence" ZOQ seminar room
	/ D4 Transferable skills (group B)	Diana Deterra "Career orientation for PhD students" SR I	Diana Deterra "Career orientation for PhD students" SR I	Diana Deterra "Career orientation for PhD students" SR I	Diana Deterra "Career orientation for PhD students" SR I
17:30 – 18:00	Coffee break				
18:00 – 20:00		/ E1 Scientific colloquium & welcome reception, SR II Rebeca Gonzalez Suarez, Uppsala University "When will the LHC come full circle?"	/ E2 Industry talk and get-together, SR II Mark Hartney, SLAC National Accelerator Laboratory, Stanford University / Breakthrough Energy Ventures "Challenges and Opportunities in Energy Storage"	/ Poster session CFEL foyer / BBQ starting at 19:00 at CFEL foyer	