

MARCH 18 – 21, 2019

# GRADUATE DAYS

## SCIENTIFIC LECTURES LONG COURSE

LIGHT-MATTER QUANTUM  
INTERFACES: OPTOMECHANICS  
AND CHIRAL QUANTUM OPTICS

**PROF. KLEMENS HAMMERER  
AND DR. SAHAND  
MAHMOODIAN**

*Mon-Wed, 09:30-12:30  
Z0Q, building 90, seminar room,  
ground floor*

2D-IR SPECTROSCOPY:  
PROTEIN DYNAMICS,  
ULTRAFAST STRUCTURE DETER-  
MINATION AND STEERING  
PHOTOCHEMISTRY

**PROF. JENS BREDENBECK**

*Mon-Wed, 09:30-12:30  
CFEL, building 99, seminar room I,  
ground floor*

DENSITY FUNCTIONAL THEORY

**DR. KLAAS GIESBERTZ**

*Mon-Wed, 09:30-12:30  
CFEL, building 99, seminar room II,  
ground floor*

## SCIENTIFIC LECTURES SHORT COURSE

POLARON PHYSICS IN  
ULTRACOLD ATOMS AND  
SOLID-STATE MATERIALS

**DR. RICHARD SCHMIDT**

*Mon-Wed, 14:00-15:30  
Z0Q, building 90, seminar room,  
ground floor*

FEMTOCHEMISTRY AND  
SURFACE PHYSICS

**PROF. WILFRIED WURTH**

*Mon-Wed, 14:00-15:30  
CFEL, building 99, seminar room I,  
ground floor*

CELLULAR IMAGING AND  
NANOANALYTICS TO STUDY  
NEURODEGENERATION:  
FROM NANOMECHANICAL  
SENSORS TO SINGLE CELL  
VISUAL PROTEOMICS

**DR. THOMAS BRAUN**

*Mon-Wed, 14:00-15:30  
CFEL, building 99, seminar room II,  
ground floor*

## PRACTICAL AND SOFT SKILLS

MACHINE LEARNING IN  
PYTHON: A STEP-BY-STEP  
HANDS-ON INTRODUCTION

**BERND KLEIN**

*Thu, 09:30-17:00  
building 61, Rechnerraum/CIP-Pool,  
ground floor*

MULTIDIMENSIONAL DATA  
ANALYSIS WITH MATLAB

**PROF. GERWALD LICHTENBERG**

*Thu, 09:30-17:00  
building 3, room 3, ground floor*

SCIENTIFIC PRESENTATION SKILLS

**DR. ANDREW WOLD**

*Thu, 09:30-17:00  
CFEL, building 99, seminar room IV (01.111),  
first floor*

OPTIONS FOR THIRD PARTY  
FUNDING AND HOW TO APPLY

**DR. WOLFGANG RÖHR AND  
DR. SABINE BAARS**

*Thu, 09:30-12:30  
CFEL, building 99, seminar room I,  
ground floor*

## COLLOQUIUM INDUSTRY

NEW PERSPECTIVES ON  
QUANTUM GEOMETRY,  
SUPERCONDUCTIVITY AND  
BOSE-EINSTEIN CONDENSATION

**PROF. PÄIVI TÖRMÄ**

*Tue, 17:00  
CFEL, building 99, seminar rooms I-II-III,  
ground floor*

QUANTUM TECHNOLOGIES:  
FROM BASIC RESEARCH  
TO INDUSTRY

**DR. STEPHAN RITTER**

*Wed, 16:30  
CFEL, building 99, seminar rooms I-II,  
ground floor*

**Registration and more information:**  
[www.cui.uni-hamburg.de/en/graduate-days](http://www.cui.uni-hamburg.de/en/graduate-days)