

Block Seminar: Presentations of Optics Lab Projects 2016/2017

20 minutes talk and 10 minutes discussion

Thursday 16.02.2017

Room: NEW 15 1'404

Time	Name	Topic
11:00	Sakshi Sharma	Up-conversion Nanoparticles
11:30	Nicola Mayer	Confinement-induced resonances: two particles in a box

Monday 06.03.2017

Room: NEW 15 3'101

Time	Name	Topic
10:00	Monica Pons	Up-conversion Nanoparticles
10:30	Zhu Xiaohui	Dark field imaging in color
11:00	Malte Smoor	Probing atomic absorption of Rb and laser stabilization
11:30- 11:45		Coffee break
11:45	Christos Mourikis	Digital steering electronics for frequency stabilised laser systems
12:45	Dmitry Smirnov	Piezo-electric step actuators for steering laser beams
13:15- 14:15		Lunch break
14:15	Esteban Gomez Lopez	Ultrafast pump-probe experiments on saturable optical media
14:45	Sam Fairman	Implementation of a measurement system for few-cycle laser pulses based on FROG
15:15	Alsu Zubairova	Theory of high harmonic generation

1. Ultrafast pump-probe experiments on saturable optical media

Supervisor: Thomas Elsässer (MBI)

Student: **Esteban Gomez Lopez**

2. Probing atomic absorption of Rb and laser stabilization

Supervisor: Oliver Benson / Oliver Neitzke (HU)

Student: **Malte Smoor**

3. Dark field imaging in color

Supervisor: Oliver Benson / Martin Rothe (HU)

Student: **Zhu Xiaohui**

4. Digital steering electronics for frequency stabilised laser systems

Supervisor: Markus Krutzik (HU)

Student: **Christos Mourikis**

5. Up-conversion Nanoparticles

Supervisor: Ute Resch-Genger / Florian Frenzel (BAM)

Students: **Monica Pons & Sakshi Sharma**

6. Piezo-electric step actuators for steering laser beams

Supervisor: Achim Peters (HU)

Student: **Dmitry Smirnov**

7. Implementation of a measurement system for few-cycle laser pulses based on FROG

Supervisor: Nickolai Zhavoronkov (MBI)

Student: **Sam Fairman**

8. Theory of high harmonic generation

Supervisor: Misha Ivanov (MBI / HU)

Student: **Alsu Zubairova**