



**8th International Summer School
of the SFB/TRR21
"Control of Quantum Correlations in Tailored Matter"
Heinrich-Fabri-Haus, Blaubeuren
July 27 - 29, 2015**

Chair: R. Löw, R. Kleiner, F. Jelezko ...

Scientific Topic: Quantum Information and Quantum Simulation

Speakers:

Prof. Gerhard Rempe, MPI für Quantenoptik, Garching
Prof. Arno Rauschenbeutel, TU Wien
Prof. Stephan Goetzinger, MPI Erlangen
Dr. PalashBharadwaj, ETH Zürich
Prof. Harald Giessen, Universität Stuttgart

Topics:

etc...

Poster Session:

Presentations by the students of the SFB/TRR21

Co.Co.Mat Award:

Award by the SFB/TRR21 for last year's best PhD Thesis

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| Gerhard Rempe Tutorial: Cavity Quantum Electrodynamics Talk: Quantum Networks | Arno Rauschenbeutel Tutorial: Chiral interaction of light and matter in confined geometries Talk: Coupling, controlling, and processing non-transversal photons with a single atom |
| Stephan Goetzinger Tutorial: N.N. Talk: Controlling the interaction of light and matter at the level of single quanta | Palash Bharadwaj, Tutorial: Light-matter interaction at the Nanoscale Talk: Antenna-coupled Photoemission from Single Emitters and Single Electrons |
| Harald Giessen Evening Talk: Complex functional plasmonics | |

Overview:

| Mo 27.07. | Speaker | Tue, 28.07. | Speaker | Wed, 29.07. | Speaker | |
|-------------------|--------------------------|-------------------|---------------------------------|-------------|------------------------------|--|
| | <i>Arrival</i> | 9:00-10:00 | Bharadwaj (Tutorial) | 9:00-10:30 | Rauschenbeutel (Tutorial) | |
| | | | <i>Discussion</i> | | | |
| | | 10:00-10:30 | <i>Coffee Break</i> | 10:30-11:00 | <i>Coffee Break</i> | |
| | | 10:30-12:00 | Goetzinger (Talk) | 11:00-12:00 | Bharadwaj (Talk) | |
| | <i>Discussion</i> | <i>Discussion</i> | | | | |
| 12:30-13:30 | <i>Lunch</i> | 12:30-13:30 | <i>Lunch</i> | 12:30-13:30 | <i>Lunch</i> | |
| 13:30-14:30 | Rempe (Tutorial) | 14:30-18:00 | <i>Excursion</i> | 13:30-14:30 | Rauschenbeutel (Talk) | |
| | <i>Discussion</i> | | | | <i>Discussion</i> | |
| 14:45-15:00 | <i>Coffee Break</i> | | | | 14:30-15:30 | <i>Final discussion with SFB PhD's</i> |
| 15:00-16:30 | Goetzinger (Tutorial) | | | | | <i>Departure</i> |
| 16:30-17:00 | <i>Coffee Break</i> | | | | | |
| 17:00-18:00 | Rempe (Talk) | | | | | |
| 18:00-18:30 | Co.Co.Mat Award | | | | | |
| 18:30-19:30 | <i>Dinner</i> | 18:30-19:30 | <i>Dinner</i> | | | |
| 19:30-open end | Start Poster session | 20:00-21:00 | Evening talk: Giessen | | | |