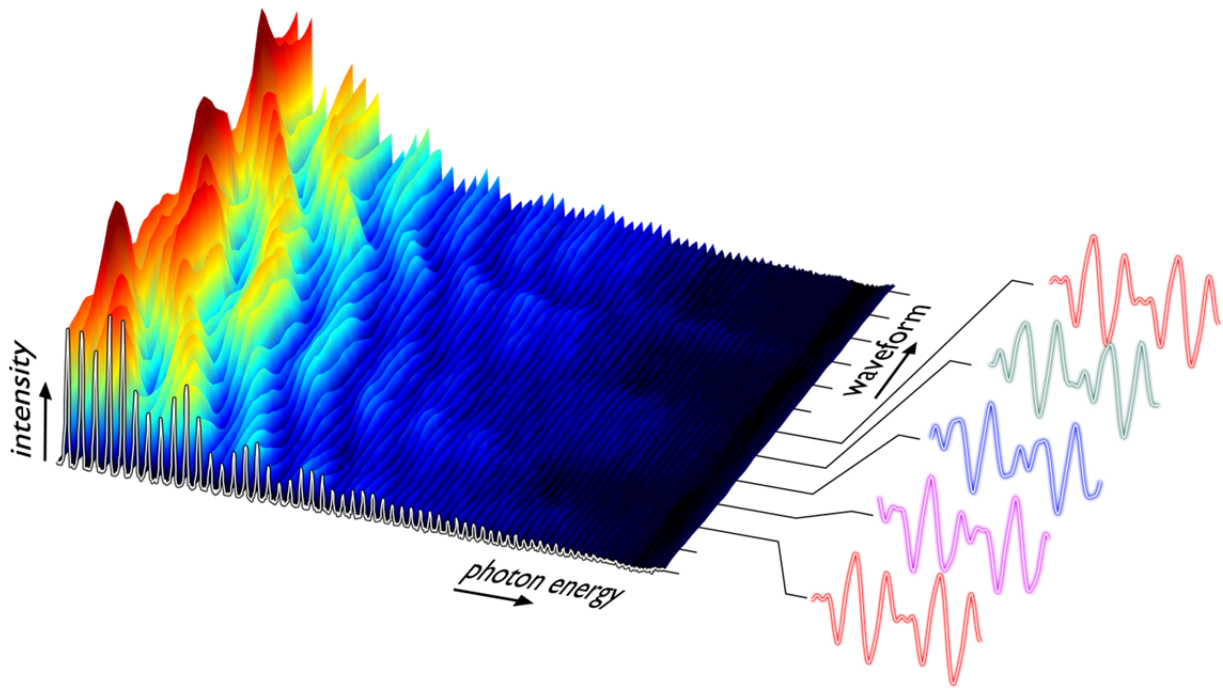


# Joint Symposium

## SFB IR-ON & SFB Next-Lite



March 13<sup>th</sup> & 14<sup>th</sup>, 2014

TU Vienna  
Photonics Institute,  
Institute for Solid State Electronics and  
Center for Micro- and Nanostructures

[www.ir-on.at](http://www.ir-on.at)

## Symposium FWF SFB Next-Lite: Next Generation Light Synthesis and Interaction

Thursday, March 13<sup>th</sup>, 2014

**Photonics seminar room CB EG 02, Gußhausstraße 27-29, 1040 Vienna**

09:45	Welcome Coffee	
10:00	Gottfried Strasser, Speaker SFB Next-Lite	Welcome and Introduction
10:05	Guilio Cerullo, Politecnico di Milano	Ultrabroadband optical parametric amplifiers: towards single-cycle CEP-controlled pulses
10:45	Andrius Baltuska, TU Wien	Applications of intense longwave laser pulses
11:15	Coffee break (30 min)	
11:45	Ulrich Hohenester, KFU Graz	Probing plasmons with electrons
12:15	Georg Wachter, TU Wien	Electron rescattering at metal nanotips induced by ultrashort laser pulses
12:45	Lunch buffet (Kontaktraum, 6th floor)	
13:45	Rolf Szedlak, TU Wien	Ring Cascade Lasers - Integrated Phase Shifts & On-Chip Focusing
14:15	Christoph Deutsch, TU Wien	Terahertz Quantum Cascade Lasers: From Growth Asymmetries towards Watt-Level Output Power
14:45	Coffee break (30 min)	
15:15	Sahin K. Özdemir, Washington Univ St. Louis	Parity-time-symmetric optics with whispering-gallery-resonators
15:55	Stefan Rotter, TU Wien	Reversing the pump-dependence of a laser at an exceptional point
16:25	Philipp Schneeweiss, TU Wien	Atom-Mediated Directional Channeling of Emission into an Optical Waveguide
16:55	Closing	



## FWF SFB IR-ON Symposium:

# InfraRed-Optical Nanostructures

Friday, March 14<sup>th</sup>, 2014

Photonics seminar room CB EG 02, Gußhausstraße 27-29, 1040 Vienna

09:00	Karl Unterrainer, TU Wien, Speaker SFB IR-ON	Welcome and Introduction
09:10	H.-W.Hübers, DLR Berlin	High resolution molecular spectroscopy with THz quantum cascade lasers
09:50	Magdalena Schatzl, JKU Linz Florian Hackl, JKU Linz	Purcell Enhancement of SiGe QD Emission in Photonic Crystal Slabs
10:20	Coffee break (30 min)	
10:50	Tobias Kampfrath, Fritz Haber Institut, Berlin	How to use terahertz pulses to observe and control spin dynamics in solids
11:30	Julian Stangl, JKU Linz	Strained nanostructures seen by focused x-rays
12:00	Georg Kresse, Uni Wien	Ionization Potentials of Solids: The Importance of Vertex Corrections
12:30	Lunch buffet & End of Symposium (Kontaktraum, 6 <sup>th</sup> floor)	