



MPL

Max Planck Institute
for the science of light



Friedrich-Alexander-Universität
Erlangen-Nürnberg

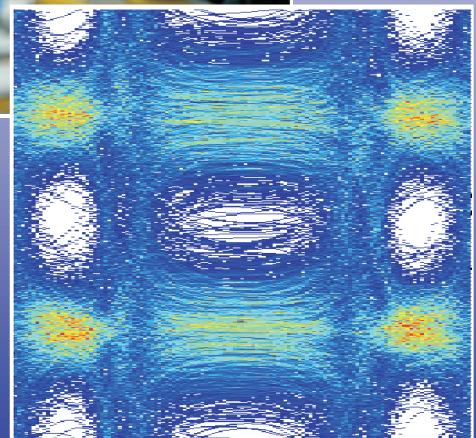
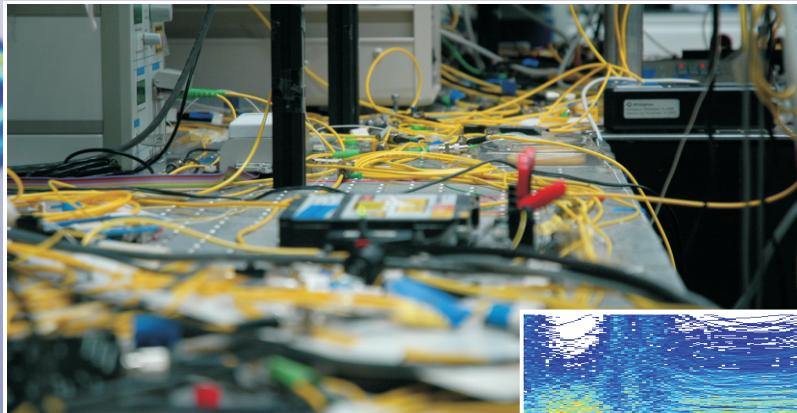
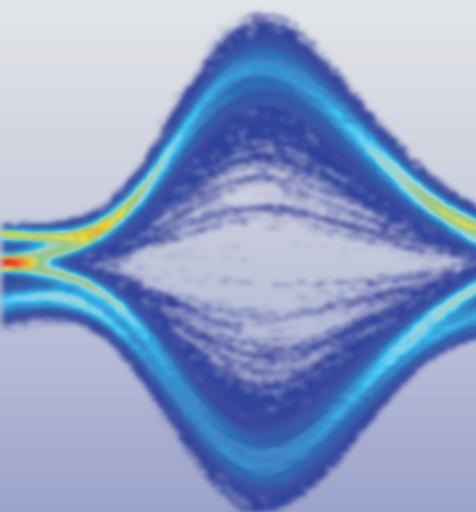


FAU

15th International SAOT Workshop

on

All-Optical Signal Regeneration



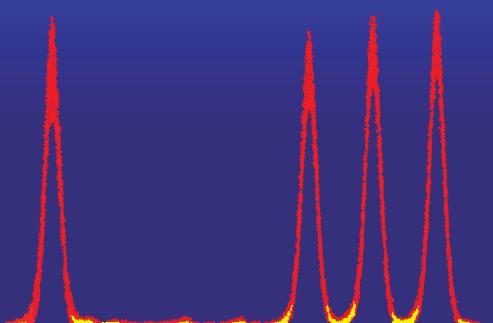
September 28-29, 2011
Erlangen, Germany

Workshop Chair:

Bernhard Schmauss (Chair)
Georgy Onishchukov (Co-Chair)

Local Organizing Committee:

Christina Ort
Tobias Roethlingshoefer



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Scope

The workshop, organized by the Chair of Microwave Engineering (LHFT), the Max Planck Institute for the Science of Light (MPL) and the Erlangen Graduate School of Advanced Optical Technologies (SAOT), will address topics in:

- Current status and prospects of all-optical signal regeneration
- Components and subsystems for optical signal processing
- Signal regeneration of advanced modulation formats

The workshop is aimed at bringing together international experts to discuss fundamental aspects, potential applications, and technological challenges in these fields.

Preliminary Program

Wednesday, September 28	
08:30	Registration
09:00	Bernhard Schmauss (University of Erlangen-Nuremberg) <i>Introduction</i>
09:05	Jörg-Peter Elbers (ADVA Optical Networking) <i>Prospects and challenges in all-optical regeneration – a system vendor view</i>
09:55	Ernesto Ciaramella (Scuola Superiore Sant'Anna) <i>Issues and prospects of all-optical regeneration</i>
10:50	Coffee break
11:00	Masajuki Matsumoto (Osaka University) <i>All-optical and opto-electronic signal regenerators</i>
12:00	Colja Schubert (Heinrich-Hertz Institute) <i>Optical signal processing for signal regeneration</i>
13:00	Lunch
14:00	Lars Gruener-Nielson (OFS Denmark) <i>Highly nonlinear fibers</i>
15:00	Coffee break
15:15	Rod Webb (University College Cork) <i>SOA-based optical regeneration</i>
16:15	Franko Kueppers (TU Darmstadt) <i>Reach extenders for passive optical networks</i>
17:15	Transfer to the hotel

Wednesday, September 28 - Evening Program (for invited speakers and registered persons)	
18:00	Departure at Theaterplatz / Erlangen Centrum
18:15	Departure at Hans-Georg-Waeber Hall, Fraunhofer IISB
19:00	Guided Tour in Nuremburg
20:30	Conference Dinner in Nuremburg Albrecht Dürer Stube
	Transfer to the hotel

Thursday, September 29	
09:00	Jean-Claude Simon (CNRS Enssat) <i>Optical signal regeneration using saturable absorber microcavities</i>
10:00	Coffee break
10:30	Sonia Boscolo (Aston University) <i>Nonlinear pulse shaping in fibres for pulse generation and optical processing</i>
11:30	Georgy Onishchukov (Max Planck Institute for the Science of Light) <i>Nonlinear optical loop mirrors for signal regeneration</i>
12:30	Lunch
14:00	Adonis Bogris (University of Athens) <i>Phase-sensitive regenerators for complex coherent modulation formats</i>
15:00	Coffee break
15:15	Radan Slavík (University of Southampton) <i>Simultaneous amplitude and phase regeneration of PSK signals using phase-sensitive amplifiers</i>
16:15	Michael Vasilijev (University of Texas) <i>Multi-channel 2R regeneration in a group-delay-managed nonlinear medium</i>
17:15	End of the Workshop

Notes

SAOT Workshop on All-optical Signal Regeneration

September 28-29, 2011

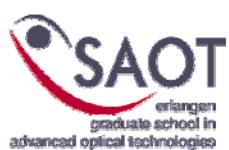
Venue:

Hans-Georg Waeber Hall
Fraunhofer IISB
Schottkystr. 10,
D-91058 Erlangen



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