

Photonics West 2015

Montag, 9. Februar 2015

Improved chromatical and field correction of high-NA GRIN-based endoscopic imaging systems for new biophotonic applications

11:20 Uhr
Raum 304 (Esplanade)
Herbert Gross, FSU Jena und Fraunhofer IOF

Femtosecond inscribed mode modulators in large mode area fibers: Experimental and theoretical analysis

15:40 Uhr
Raum 131 (Exhibit Level)
Ria G. Krämer, Philipp Gelszinnis, Christian Voigtländer, Christian Schulze, Jens U. Thomas, Daniel Richter, Michael Duparré, FSU Jena und Stefan Nolte, FSU Jena und Fraunhofer IOF

Dienstag, 10. Februar 2015

Erase and formation of femtosecond laser-induced nanostructures

08:40 Uhr
Raum 133 (Exhibit Level)
Felix Zimmermann, FSU Jena, Andreas Tünnermann, Stefan Nolte, FSU Jena und Fraunhofer IOF

Spatial and temporal temperature distribution of ultrashort pulse induced heat accumulation in glass

10:50 Uhr
Raum 133 (Exhibit Level)
Sören Richter, FSU Jena, Andreas Tünnermann, Stefan Nolte, FSU Jena und Fraunhofer IOF

Tailoring the angular transmission behavior of high-contrast gratings

12:00 Uhr
Raum 123 (Exhibit Level)
Stefanie Kroker, Thomas Käsebier, FSU Jena; Ernst-Bernhard Kley, Andreas Tünnermann, FSU Jena und Fraunhofer IOF

Mask aligner lithography for TSV-structures using a doublesided (structured) photomask

14:00 Uhr
Raum 228 (Mezzanine)
Tina Weichelt, Lorenz Stürzebecher, FSU Jena; Uwe D. Zeitner, FSU Jena und Fraunhofer IOF

Four-wave mixing based optical parametric oscillator producing high energy, tunable, chirped femtosecond pulses

16:00 Uhr

Raum 131 (Exhibit Level)

Thomas Gottschall, FSU Jena; Jens Limpert, Andreas Tünnermann, FSU Jena und Fraunhofer IOF

Wavelength dependence of maximal diffraction-limited output power of fiber lasers

18:00 – 20:00 Uhr

Raum 103 (Exhibit Level)

Hans-Jürgen Otto, Norbert Modsching, Cesar Jauregui-Misas, FSU Jena; Jens Limpert, Andreas Tünnermann, FSU Jena und Fraunhofer IOF

Mittwoch, 11. Februar 2015

FPGA-accelerated adaptive optics wavefront control, part II

09:10 Uhr

Raum 122 (Exhibit Level)

Erik Beckert, Claudia Reinlein, Michael Appelfelder, Fraunhofer IOF

Metal mirrors with metal-dielectric HR-coating for ultrashort lasers pulses applied in scanner applications

09:40 Uhr

Raum 125 (Exhibit Level)

Mark Schürmann, Fraunhofer IOF; Christian Franke, Fraunhofer IOF and FSU Jena; Sandra Müller, Stefan Risse, Fraunhofer IOF; Helena Kaemmer, Felix Dreisow, Stefan Nolte, FSU Jena; Ramona Eberhardt, Norbert Kaiser, Fraunhofer IOF

Coherent Combination of Ultrafast Laser Pulses: A Route to Joule-Class High Repetition Rate Femtosecond Lasers

11:10 – 11:50 Uhr

Raum 134 (Exhibit Level)

Jens Limpert (FSU Jena)

Ultrashort pulse laser processing of glass: From cutting to Welding

14:00 Uhr

Raum 134 (Exhibit Level)

Stefan Nolte, FSU Jena and Fraunhofer IOF

Sub-8fs, 353µj pulses with 53W average power by nonlinear compression of a fiber chirped pulse amplifier

14:40 Uhr

Raum 131 (Exhibit Level)

Steffen Hädrich, Jan Rothhardt, Arno Klenke, Stefan Demmler, Armin Hoffmann, Tino Eidam, Thomas Gottschall, Manuel Krebs, FSU Jena; Jens Limpert, Andreas Tünnermann, FSU Jena und Fraunhofer IOF

Experimental demonstration of multidimensional amplification of ultrashort pulses

15:00 Uhr

Raum 131 (Exhibit Level)

Marco Kienel, Michael Mueller, Arno Klenke, Tino Eidam, FSU Jena; Jens Limpert, Andreas Tünnermann, FSU Jena und Fraunhofer IOF

5.7mJ fiber-CPA system delivering 23.5 gW of peak power

15:50 Uhr

Raum 131 (Exhibit Level)

Arno Klenke, Steffen Hädrich, Tino Eidam, Marco Kienel, FSU Jena; Jens Limpert, Andreas Tünnermann, FSU Jena und Fraunhofer IOF

BBO sapphire compound for high-power frequency conversion

16:20 Uhr

Raum 272 (Mezzanine)

Carolin Rothhardt, Fraunhofer IOF und FSU Jena; Arno Klenke, FSU Jena; Thomas Peschel, Ramona Eberhardt, Fraunhofer IOF; Jens Limpert, Andreas Tünnermann, FSU Jena und Fraunhofer IOF

Bringing mirrors to rest: grating concepts for ultra-precise interferometry

16:30 Uhr

Raum 123 (EXHIBIT LEVEL)

Stefanie Kroker, FSU Jena, Ernst-Bernhard Kley, Andreas Tünnermann, FSU Jena und Fraunhofer IOF

Phase stabilization of multidimensional amplification architectures amplifying ultrashort pulses

16:50 Uhr

Raum 131 (Exhibit Level)

Michael Müller, FSU Jena; Marco Kienel, Arno Klenke, Tino Eidam, FSU Jena; Jens Limpert, Andreas Tünnermann, FSU Jena und Fraunhofer IOF

Demonstration of >5kW emissions with good beam quality from two different 7:1 all-glass fiber coupler-types

17:00 Uhr

Raum 272 (Mezzanine)

Marco Plötner, Oliver de Vries, Thomas Schreiber, Ramona Eberhardt, Fraunhofer IOF

High-efficiency encapsulated transmission gratings for chirped pulse Amplification

18:00 – 20:00 Uhr

Raum 103 (Exhibit Level)

Stephan Ratzsch, Adriana Szeghalmi; Ernst-Bernhard Kley, Andreas Tünnermann FSU Jena und Fraunhofer IOF

Donnerstag, 12. Februar 2015

6.8kW peak power quasi-continuous wave tandem-pumped ytterbium amplifier at 1071nm

09:10 Uhr

Raum 131 (Exhibit Level)

Franz Beier, Maximilian Strecker, Johannes Nold, Nicoletta Haarlamert, Thomas Schreiber, Ramona Eberhardt, Fraunhofer IOF; Andreas Tünnermann, FSU Jena und Fraunhofer IOF

Sub-700fs pulses at 152W average power from a Tm-doped fiber CPA syste

10:40 Uhr

Raum 131 (Exhibit Level)

Christian Gaida, Fabian Stutzki, Martin Gebhardt, Cesar Jauregui-Misas, FSU Jena; Fraunhofer IOF; Frank Fuchs, Fraunhofer IOF; Uwe D. Zeitner, Jens Limpert, Andreas Tünnermann, FSU Jena und Fraunhofer IOF

Numerical simulation and optimization of microstructured high brightness broad area laser diodes

10:50 Uhr

Raum 252 (Mezzanine)

Hans-Christoph Eckstein, Uwe D. Zeitner, Andreas Tünnermann, FSU Jena und Fraunhofer IOF

Peak power scaling of thulium-doped ultrafast fiber laser Systems

11:40 Uhr

Raum 131 (Exhibit Level)

Martin Gebhardt, Christian Gaida, Fabian Stutzki, Cesar Jauregui-Misas, FSU Jena; Jens Limpert, Andreas Tünnermann, FSU Jena und Fraunhofer IOF

Tailoring the angular transmission behavior of high-contrast gratings

12:00 Uhr

Raum 123 (EXHIBIT LEVEL)

Stefanie Kroker, Thomas Käsebier, FSU Jena; Ernst-Bernhard Kley, Andreas Tünnermann, FSU Jena und Fraunhofer IOF

Mask aligner lithography for TSV-structures using a doublesided (structured) photomask

14:00 Uhr

Raum 228 (Mezzanine)

Tina Weichelt, Lorenz Stürzebecher, FSU Jena; Uwe D. Zeitner, Fraunhofer IOF and FSU Jena

Self-efficiency improvement and cooling in thulium-doped fibers

14:20 Uhr

Raum 131 (Exhibit Level)

Cesar Jauregui-Misas, Fabian Stutzki, FSU Jena; Jens Limpert, Andreas Tünnermann, FSU Jena und Fraunhofer IOF