



PRELIMINARY PROGRAMME

| MONDAY, SEPTEMBER 3RD, 2012 | |
|--|------------------------------|
| 13:00 – 21:00 | Registration of participants |
| 19:00 – 21:00 | Informal get together |
| TUESDAY, SEPTEMBER 4TH, 2012 | |
| 07:00 – 09:00 | Breakfast |
| 08:00 – 12:00 | Registration of participants |
| 08:45 – 09:00 | Opening Ceremony |
| 09:00 – 11:20 | Plenary Lectures |
| 11:20 – 11:50 | Coffee Break |
| 11:50 – 12:50 | Parallel Sections |
| 13:00 – 14:30 | Lunch |
| 14:30 – 15:50 | Parallel Sections |
| 15:50 – 16:20 | Coffee Break |
| 16:20 – 17:30 | Plenary Lectures |
| 17:40 – 18:40 | Parallel Sections |
| 18:30 – 20:00 | Dinner |
| 19:30 – 21:00 | Poster Session A |
| WEDNESDAY, SEPTEMBER 5TH, 2012 | |
| 07:00 – 09:00 | Breakfast |
| 09:00 – 10:10 | Plenary Lectures |
| 10:10 – 10:40 | Coffee Break |
| 10:40 – 12:30 | Parallel Sections |
| 12:15 – 14:00 | Lunch |
| 14:00 – 18:00 | Excursion |
| 19:00 – 23:00 | Gala Dinner |
| THURSDAY, SEPTEMBER 6TH, 2012 | |
| 07:00 – 09:00 | Breakfast |
| 09:00 – 10:10 | Plenary Lectures |
| 10:10 – 10:40 | Coffee Break |
| 10:40 – 12:20 | Parallel Sections |
| 12:30 – 14:00 | Lunch |
| 14:00 – 15:45 | Plenary Lectures |
| 15:45 – 16:20 | Commercial Presentation |
| 16:20 – 16:50 | Coffee Break |
| 16:50 – 18:30 | Parallel Sections |
| 18:30 – 20:00 | Dinner |
| 19:30 – 21:00 | Poster Session B |
| FRIDAY, SEPTEMBER 7TH, 2012 | |
| 07:00 – 09:00 | Breakfast |
| 09:00 – 10:40 | Parallel Sections |
| 10:40 – 11:00 | Closing Ceremony |
| 11:00 – 13:00 | Lunch |
| 13:00 – 17:00 | Informal Discussions |

MONDAY, SEPTEMBER 3RD, 2012

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|---------------|------------------------------|
| 13:00 – 21:00 | Registration of participants |
| 19:00 – 21:00 | Informal get together |

TUESDAY, SEPTEMBER 4TH, 2012

| | | |
|----------------------|---|------------------------------|
| 07:00 – 09:00 | Breakfast | |
| 08:00 – 12:00 | Registration of participants | |
| 08:45 – 09:00 | OPENING CEREMONY | |
| 09:00 - 11:20 | PLENARY LECTURES Chairman: <i>Waclaw Urbanczyk</i> | Lounge IV “Medvědí rokle” |
| 09:00 – 09:35 | <i>Adam Miranowicz, Monika Bartkowiak, Xiaoguang Wang, Yu-xi Liu, Franco Nori</i> How to detect quantumness and entanglement of multimode optical fields | |
| 09:35 – 10:10 | <i>Pavel Zemánek</i> Classical and advanced methods of optical micromanipulations and their applications | |
| 10:10 – 10:45 | <i>Ivan Richter, J. Proška, P. Kwiecien, L. Štolcová, J. Fiala, F. Novotný, P. Vojtíšek, J. Slabý, M. Vaněk, A. Kálosi, N. Belov, J. Čtyroký</i> Theory, modeling, design and realization of advanced photonic (nano)structures | |
| 10:45 – 11:20 | <i>Ondřej Číp</i> From radio waves to light waves: Femtosecond combs work in frequency metrology and measurement of lengths | |
| 11:20 – 11:50 | Coffee Break | |
| 11:50 – 12:50 | SECTION 1 Chairman: <i>Adam Miranowicz</i> | Lounge IV “Medvědí rokle” |
| 11:50 – 12:10 | <i>Pavel Zemánek, Martin Šiler, Tomáš Čižmár</i> Behaviour of self-arranged chain of colloidal particles in a travelling standing wave | |
| 12:10 – 12:30 | <i>Vítězslav Karásek, Pavel Zemánek</i> Optical binding of unlike particles | |
| 12:30 – 12:50 | <i>Oto Brzobohatý, Vítězslav Karásek, Martin Šiler, Pavel Zemánek</i> Dynamic size tuning of multidimensional optically bound matter | |
| 11:50 - 12:50 | SECTION 2 Chairman: <i>Dagmar Senderáková</i> | Lounge V “Daňčí paseka” |
| 11:50 – 12:10 | <i>Petr Němec</i> Optospintronics | |
| 12:10 – 12:30 | <i>Michal Mičuda, Ivo Straka, Martina Miková, Miloslav Dušek, Nicolas J. Cerf, Jaromír Fiurášek, Miroslav Ježek</i> Noiseless loss suppression in quantum optical communication | |
| 12:30 – 12:50 | <i>Jan Peřina Jr., Ondřej Haderka, Martin Hamar, Václav Michálek</i> Absolute detector calibration using twin beams | |
| 13:00 – 14:30 | Lunch | |

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|----------------------|--|------------------------------|
| 14:30 – 15:50 | SECTION 1 Chairman: <i>Ivan Richter</i> | Lounge IV “Medvědí rokle” |
| 14:30 – 14:50 | <i>Karol Tarnowski, Włodzimierz Salejda</i> Design of tunable metamaterial cell with nematic liquid crystal layer operating near 100 GHz | |
| 14:50 – 15:10 | <i>Anton Kuzma, Jozef Chovan, František Uherek</i> Design of an optical power splitter with integrated two-dimensional photonic crystal | |
| 15:10 – 15:30 | <i>Janusz Kaniewski, Jaroslaw Jureńczyk, Dariusz Żak</i> Modeling of InGaAs/InAlAs/InP avalanche photodiodes with undepleted absorber | |
| 15:30 – 15:50 | <i>Jakub Svoboda, Marek Škereň, Martin Possolt, Milan Květoň, Pavel Fiala</i> Advanced optical document security elements | |
| 14:30 - 15:50 | SECTION 2 Chairman: <i>Jaromír Fiurášek</i> | Lounge V “Daňčí paseka” |
| 14:30 – 14:50 | <i>Ondřej Číp, Martin Čížek, Zdeněk Buchta, Radek Šmíd, Josef Lazar</i> High-resolution detection of small distance changes by an optical frequency comb | |
| 14:50 – 15:10 | <i>Radek Šmíd, Martin Čížek, Zdeněk Buchta, Josef Lazar, Ondřej Číp</i> Evaluation of ultra-low expansion spacer in the Fabry-Perot cavity with optical frequency comb | |
| 15:10 – 15:30 | <i>Zdeněk Buchta, Šimon Řeřucha, Břetislav Mikel, Martin Čížek, Josef Lazar, Ondřej Číp</i> Novel Principle of Contactless Gauge Blocks Length Measurement | |
| 15:30 – 15:50 | <i>Josef Lazar, Jan Hrabina, Zdeněk Buchta, Ondřej Číp, Jindřich Oulehla</i> Displacement measurement with over-determined interferometer | |
| 15:50 – 16:20 | Coffee Break | |
| 16:20 - 17:30 | PLENARY LECTURES Chairman: <i>Josef Lazar</i> | Lounge IV “Medvědí rokle” |
| 16:20 – 16:55 | <i>Dušan Korček, Jarmila Müllerová</i> Steep optical filtering for next generation optical access networks | |
| 16:55 – 17:30 | <i>Dagmar Senderakova, Vladimír Mesáros, Anton Strba</i> Holographic recording and LDM | |
| 17:40 - 18:40 | SECTION 1 Chairman: <i>Ondřej Číp</i> | |
| 17:40 – 18:00 | <i>Daniel Benedikovič, Jan Litvák, Milan Dado, Miroslav Markovič, Jozef Dubovan</i> Numerical investigation of Four wave mixing in DWDM systems with high-order QAM modulation formats and coherent detection | |
| 18:00 – 18:20 | <i>Jozef Chovan, František Uherek, Anton Kurma</i> Design and simulation of a fiber to chip coupler designed on SOI platform with subwavelength grating | |
| 18:20 – 18:40 | <i>Petr Šiška, Martin Brožovič, Jakub Čubík, Stanislav Kepák, Jan Látal, Petr Koudelka, Jan Vitásek, Vladimír Vašínek</i> Fiber Bragg grating vibration sensor with DFB laser diode | |

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| 17:40 - 18:20 | SECTION 2 Chairman: <i>Jarmila Müllerová</i> | Lounge V "Datčí paseka" |
| 17:40 – 18:00 | <i>Milan Květoň, Antonín Havránek, Pavel Fiala, Marek Škereň, Ivona Simová</i> Photopolymer recording materials for optical holography | |
| 18:00 – 18:20 | <i>Marta A. Szmigiel, Henryk Kasprzak</i> Numerical analysis of variability of the eye pupil geometry based on the fast video recording | |
| 18:30 – 20:00 | Dinner | |
| 19:30 – 21:00 | POSTER SESSION A | Lounge VI "Jelení obora" |

WEDNESDAY, SEPTEMBER 5TH, 2012

| | | |
|----------------------|--|------------------------------|
| 07:00 – 09:00 | Breakfast | |
| 09:00 - 10:10 | PLENARY LECTURES Chairman: <i>Jan Masajada</i> | Lounge IV “Medvědí rokle” |
| 09:00 – 09:35 | <i>Wacław Urbańczyk, Tadeusz Martynkien, Gabriela Statkiewicz-Barabach, Jacek Olszewski, Alicja Anuszkiewicz, Marcin Szczurowski, Karol Tarnowski, Paweł Mergo, Mariusz Makara, Krzysztof Poturaj</i> Birefringent photonic crystal fibers for sensing applications | |
| 09:35 – 10:10 | <i>Radim Chmelík</i> Coherent imaging with incoherent light in digital holographic microscopy | |
| 10:10 – 10:40 | Coffee Break | |
| 10:40 - 12:30 | SECTION 1 Chairman: <i>Pavel Honzátko</i> | Lounge IV “Medvědí rokle” |
| 10:40 – 11:00 | <i>Michala Henzlová, Martin Lošťák, Radim Chmelík</i> Theoretical study of coherence-controlled holographic microscopy in the presence of scattering media | |
| 11:00 – 11:20 | <i>Jan Masajada, Agnieszka Popiołek-Masajada, Ireneusz Augustyniak</i> Scanning optical vortex microscopy | |
| 11:20 – 11:40 | <i>Martin Siler, Petr Jakl, Lukáš Chvátal, Pavel Zemanek</i> Optical forces in higher order Bessel beam | |
| 11:40 – 12:10 | <i>Waldemar Głaz</i> Hyper-Rayleigh collisional light scattering. Theoretical versus <i>ab initio</i> models | |
| 12:10 – 12:30 | <i>Miroslav Hain, Ján Bartl, Róbert Ševčík, Vlado Jacko</i> Use of X-ray microtomography for 3D imaging of internal structures | |
| 10:40 - 12:10 | SECTION 2 Chairman: <i>Pavel Zemánek</i> | Lounge V “Daňčí paseka” |
| 10:40 – 11:00 | <i>Tadeusz Martynkien, Katarzyna Drożdżal, Wacław Urbańczyk, Paweł Mergo</i> Sensitivity to temperature, strain and hydrostatic pressure in polymer highly birefringent microstructured fibers | |
| 11:00 – 11:20 | <i>Alicja Anuszkiewicz, Bertrand Kibler, Karol Tarnowski, Gabriela Statkiewicz-Barabach, Paweł Mergo, Wacław Urbanczyk</i> Switching of four wave mixing process between polarization modes of microstructured birefringent fiber by mechanically induced rocking filter | |
| 11:20 – 11:40 | <i>Petr Hlubina, Jacek Olszewski, Tadeusz Martynkien, Paweł Mergo, Mariusz Makara, Krzysztof Poturaj, Wacław Urbanczyk</i> Spectral-domain measurement of strain sensitivity of a two-mode birefringent holey fiber | |
| 11:40 – 12:10 | <i>Jacek Olszewski, Tadeusz Martynkien, Wacław Urbańczyk</i> Design of birefringent microstructured polymer optical fibers | |

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| 12:15 – 14:00 | Lunch |
| 14:00 – 18:00 | Excursions The buses for the Hyundai Nošovice and Museum Tatra Kopřivnice excursions will be situated next to the Sepetná Hotel at 13:45. |
| 19:00 – 23:00 | Gala Dinner |

THURSDAY, SEPTEMBER 6TH, 2012

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|----------------------|---|---|------------------------------|
| 07:00 – 09:00 | | Breakfast | |
| 09:00 - 10:10 | | PLENARY LECTURES Chairman: <i>Petr Hlubina</i> | Lounge IV “Medvědí rokle” |
| 09:00 – 09:35 | <i>Jaromír Pištorá, Michal Lesňák, Jaroslav Vlček</i> Surface plasmon structures with ferromagnetic thin films | | |
| 09:35 – 10:10 | <i>Pavel Honzátko</i> Latest achievements in fiber lasers | | |
| 10:10 – 10:40 | | Coffee Break | |
| 10:40 - 12:00 | | SECTION 1 Chairman: <i>Ignác Bugár</i> | Lounge IV “Medvědí rokle” |
| 10:40 – 11:00 | <i>Jaroslav Vlček, Michal Lesňák, Petr Otipka, Jaroslav Sobota</i> Surface plasmon resonance in magneto-optically active planar systems | | |
| 11:00 – 11:20 | <i>Pavel Kwiecien, Ivan Richter, Jiří Čtyroký</i> Novel types of dielectric loaded surface plasmon polariton waveguides and structures | | |
| 11:20 – 11:40 | <i>Jan Fiala, Pavel Kwiecien, Ivan Richter</i> Physics and design possibilities of plasmonic-based fishnet metamaterial structures | | |
| 11:40 – 12:00 | <i>Tomasz Stefaniuk, Piotr Wróbel, Tomasz Szoplik</i> Plasmonic structures: reduction of island deposition of metals on cooled substrates | | |
| 10:40 - 12:20 | | SECTION 2 Chairman: <i>František Uherek</i> | Lounge V “Daňčí paseka” |
| 10:40 – 11:00 | <i>Pavel Honzátko, Petr Vojtisek, Bohumil Vitovec</i> Progress in thulium doped fiber lasers and amplifiers | | |
| 11:00 – 11:20 | <i>Petr Navrátil, Petr Vojtisek, Pavel Peterka, Pavel Honzátko, Vaclav Kubeček</i> Self-induced laser line sweeping and self-pulsing in rare-earth doped fiber lasers | | |
| 11:20 – 11:40 | <i>Pavel Peterka, Filip Todorov, Ivan Kašík, Vlastimil Matějec, Ondřej Podrazký, Ladislav Šašek, Guilherme Mallmann, Robert Schmitt</i> Wideband and high-power light sources for in-line interferometric diagnostics of laser structuring systems | | |
| 11:40 – 12:00 | <i>Waldemar Zendzian, Jan K. Jabczynski, Mateusz Kaskow, Lukasz Gorajek, Jacek Kwiatkowski, Krzysztof Kopczynski</i> Self-adaptive, diode-pumped Nd:YAG slab laser with dynamic, holographic, closed-loop resonator | | |
| 12:00 – 12:20 | <i>Petr Szotkowski, Václav Kubeček</i> Passively mode-locked quasi-continuously pumped Yb:YAG laser | | |
| 12:15 – 14:00 | | Lunch | |

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| 14:00 - 15:45 | PLENARY LECTURES Chairman: Jaromír Pištora | Lounge IV "Medvědí rokle" |
| 14:00 – 14:35 | Miroslav Hrabovsky, Petr Schovanek, Miroslav Palatka, Libor Nozka, Miroslav Pech, Dusan Mandat Optics and cosmic ray research | |
| 14:35 – 15:10 | Wiesław Leoński, Anna Kowalewska-Kudłaszyk Nonlinear quantum scissors and quantum states engineering | |
| 15:10 – 15:45 | Ignác Bugár, Pavol Stajanča, Lubomír Čurilla, Ryszard Buczynski, Dariusz Pysz, František Uherek Nonlinear propagation of femtosecond pulses in dual core microstructured optical fibers | |
| 15:45 – 16:20 | COMMERCIAL PRESENTATION Mathias Bach Imagine Optics / LAO - průmyslové systémy, s.r.o. Recent improvements in optical metrology and adaptive optics for high power lasers and 3D microscopy | |
| 16:20 – 16:50 | Coffee Break | |
| 16:50 - 18:10 | SECTION 1 Chairman: Tomasz Szoplik | Lounge IV "Medvědí rokle" |
| 16:50 – 17:10 | Katarzyna A. Rutkowska, Kamil Orzechowski Discrete light propagation in microstructured fibers infiltrated with liquid crystals | |
| 17:10 – 17:30 | Jacek Pniewski, Rafał Kasztelaniec, Dariusz Pysz, Ryszard Stępień, Ryszard Buczyński Nonlinear phenomena in all solid photonic crystal fibers with nanostructured core | |
| 17:30 – 17:50 | Marcin Ślęczka, Adam Bechler Interaction of atomic systems with strong and short pulses – a new type of gauge invariant approach | |
| 17:50 – 18:10 | Ludovít Haizer, Ignác Bugár, Dušan Lorenc, František Uherek Nonlinear spectral broadening of femtosecond Cr:Forsterite pulses in high pressure gas media | |
| 16:50 - 18:30 | SECTION 2 Chairman: Anna Kowalewska-Kudłaszyk | Lounge V "Daňčí paseka" |
| 16:50 – 17:10 | Bretislav Mikel, Zdenek Buchta, Ondrej Cip, Josef Lazar Increasing of the frequency stability of the 760 nm wavelength DFB laser diode for laser interferometry | |
| 17:10 – 17:30 | Mateusz Kaskow, Jan Tarka, Lukasz Gorajek, Jan K. Jabczynski, Waldemar Zendzian, Jacek Kwiatkowski Analysis on nonstationary thermo-optical effects occurring in laser mirrors under high heat load | |
| 17:30 – 17:50 | Jozef Kaiser, Radomír Malina, Jan Novotný, David Prochazka, Veronika Konečná, Pavel Pořízka, Karel Novotný, Aleš Hrdlička, Gabriela Vítková, Lucie Krajarová, Ota Samek Utilization of Laser-Induced Breakdown Spectroscopy for elemental mapping of solid samples | |

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| 17:50 – 18:10 | <i>Ota Samek, Pavel Pořízka, David Prochazka, Jan Kouřil, Zdeněk Pilát, Lucie Krajcarová, Jozef Kaiser, Radomír Malina, Jan Novotný, Pavel Zemánek, Jan Ježek, Mojmír Šerý, Silvie Bernatová, Vladislav Krzyžánek, Kamila Dobranská, Karel Novotný</i> Application of laser-induced breakdown spectroscopy and Raman spectroscopy to the analysis of algal biomass | Lounge V “Daňčí paseka” |
| 18:10 – 18:30 | <i>Jan Vitásek, Jan Látal, Vladimír Vašínek, Stanislav Hejduk, Andrej Líner, Martin Pápeš, Petr Koudelka</i> The fog influence on bit error ratio | |
| 18:30 – 20:00 | Dinner | |
| 19:30 – 21:00 | POSTER SESSION B | Lounge VI “Jelení obora” |

FRIDAY, SEPTEMBER 7TH, 2012

| | | | |
|----------------------|--|--|------------------------------|
| 07:00 – 09:00 | | Breakfast | |
| 09:00 - 10:40 | | SECTION 1 Chairman: Wiesław Leoński | Lounge IV “Medvědí rokle” |
| 09:00 – 09:20 | Monika Borwińska, Władysław A. Woźniak Method of residual birefringence measurements in the interferometer with increased sensitivity | | |
| 09:20 – 09:40 | Maciej Trusiak, Krzysztof Patorski Space domain interpretation of incoherent moire superimpositions using FABEMD | | |
| 09:40 – 10:00 | Krzysztof Pokorski, Krzysztof Patorski Continuous wavelet transform processing of fringe patterns containing multiple fringe sets | | |
| 10:00 – 10:20 | Pavel Pavlíček, Václav Michálek White-light interferometry, Hilbert transform and noise | | |
| 10:20 – 10:40 | Libor Nozka, Miroslav Pech, Dusan Mandat, Miroslav Hrabovsky, Petr Schovaneck, Miroslav Palatka Using Geant4 toolkit for simulations of optical systems with rough isotropic surfaces using BRDF | | |
| 09:00 - 10:40 | | SECTION 2 Chairman: Radim Chmelík | Lounge V “Daňčí paseka” |
| 09:00 – 09:20 | Anna Kowalewska-Kudłaszyk Entanglement deaths and revivals in Kerr-coupler dynamics | | |
| 09:20 – 09:40 | Anirban Pathak Nonclassical properties of Fock state superpositions | | |
| 09:40 – 10:00 | Jiří Svozilík, Jan Peřina Jr. Entangled photon pairs from randomly poled nonlinear crystals | | |
| 10:00 – 10:20 | Antonín Lukš, Vlasta Peřinová, Jaromír Křepelka Surface effect on spontaneous parametric down-conversion | | |
| 10:20 – 10:40 | Radek Machulka, Jiří Svozilík, Jan Soubusta, Jan Peřina Jr., Ondřej Haderka Spatial and spectral properties of second harmonic generation in a periodically poled KTP waveguide | | |
| 10:40 – 11:00 | | CLOSING CEREMONY | Lounge IV “Medvědí rokle” |
| 11:00 – 13:00 | | Lunch | |
| 13:00 – 17:00 | | INFORMAL DISCUSSIONS | |

LIST OF POSTERS - POSTER SESSION A

| <i>Authors</i> Contribution title | Poster. No |
|--|-----------------------|
| <i>Martin Antoř, Jana Čolláková, Pavel Veselý, Radim Chmelík</i> System for coherence-controlled holographic microscopy of living cells | A 27 |
| <i>Marcin Bacia, Sławomir Drobczyński</i> Particle position measuring with optical tweezers using video processing | A 22 |
| <i>Michal Baránek, Zdeněk Bouchal</i> Rotating point spread function performed by discrete spiral phase modulation | A 1 |
| <i>Luděk Bartoněk, Jiří Kepřt, Leo Schlattauer</i> Computer control of combustion process by flame colored components | A 19 |
| <i>Silvie Bernatová, Zdeněk Pilát, Pavel Zemánek, Jan Ježek, Mojmír Šerý, Ota Samek</i> Raman spectroscopy for bacterial identification and characterization | A 26 |
| <i>Bohdan Bieg, Janusz Chrzanowski, Yury A. Kravtsov</i> Discontinuous behavior of polarization angular parameters at the poles of Poincare sphere | A 12 |
| <i>Martin Čížek, Radek Šmíd, Zdeněk Buchta, Břetislav Mikel, Josef Lazar, Ondřej Číp</i> Digital processing of signals from femtosecond combs | A 4 |
| <i>Michal Ďurák, Pavel Fiala</i> Polarization properties of nonparaxial Gaussian beams | A 13 |
| <i>Krzysztof Grygiel, Władysław Alexiewicz, Hanna Derdowska-Zimpel</i> Nonmarkovian effects in rotational diffusion processes | A 20 |
| <i>Ivana Hamarová, Pavel Horváth, Petr Šmíd, Miroslav Hrabovský</i> Correlation properties of simulated speckle effect modified by a fractal | A 2 |
| <i>Martina Havelkova, Helena Hiklova</i> Several examples of using contact profilometer for optical surface mapping | A 8 |
| <i>Lukáš Chvátal, Martin Šiler, Pavel Zemánek</i> Metallic core-shell particle in a standing wave | A 24 |
| <i>Jan Ježek, Mojmír Šerý, Zdeněk Pilát, Jan Kaňka, Ota Samek, Silva Bernatová, Pavel Zemánek</i> Optical sorting in microfluidic channel | A 25 |
| <i>Agnieszka Jóźwik, Damian Siedlecki, Marek Zajac</i> Evaluation of intraocular lens implant location in the eyeball basing on the Purkinje images | A 16 |
| <i>Tadeusz Kryszczyński, Marcin Leśniewski, Jerzy Mikucki</i> Use of matrix optics to analyze the complex multi-group zoom systems | A 11 |
| <i>Malwina Lewandowska, Agnieszka Jóźwik</i> Imaging quality of intraocular lenses – influence of surface and bulky defects | A 15 |
| <i>Andrej Líner, Martin Pápeš, Jan Vitásek, Petr Koudelka, Jan Látal, Vladimír Vašínek</i> Optical power distribution in a dark room | A 14 |
| <i>Piotr L. Makowski, Andrzej W. Domański</i> Approach for modeling influence of birefringence dispersion on polarization properties of multi-section systems | A 6 |

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| <i>Miroslav Palatka, Hana Sebestova, Helena Hiklova, Libor Nozka, Miroslav Pech, Dusan Mandat, Miroslav Hrabovsky, Petr Schovanek</i> Surface microstructure of water Cherenkov detectors reflective liner – Tyvek | A 17 |
| <i>Michal Pochmon, Tomáš Rössler, Vojtěch Svak, Miroslav Hrabovský</i> Calibration of experimental setup for phase measuring deflectometry | A 7 |
| <i>Agnieszka Popiołek-Masajada, Jan Masajada, Ireneusz Augustyniak</i> New scanning technique for optical vortex microscopy | A 21 |
| <i>Agnieszka Popiołek-Masajada, Sławomir Drobczyński, Jan Masajada, Ireneusz Augustyniak</i> Optical vortex trajectory analysis in optical manipulator setup | A 23 |
| <i>Tomáš Rössler, Michal Pochmon, Vojtěch Svak, Miroslav Hrabovský</i> Evaluation of PMD application to large mirror shape inspection | A 9 |
| <i>Šimon Řeřucha, Martin Šarbort, Zdeněk Buchta, Josef Lazar, Ondřej Číp</i> Computational approach to homodyne detection of interference phase | A 5 |
| <i>Ladislav Stanke, Jaromír Křepelka, Miroslav Palatka, Petr Schovánek, Miroslav Hrabovský</i> Application of optical elements for temporal and spatial transformation of ultra-short and ultra-intense light pulses | A 10 |
| <i>Robert Ševčík, Ján Bartl, Vlado Jacko, Miroslav Hain</i> 3D microscopy by RTG microtomography | A 18 |
| <i>Jan Tomáščík, Hana Šebestová, Radim Čtvrtlík, Petr Schovánek</i> Laser scanning confocal microscopy in materials engineering | A 3 |

LIST OF POSTERS - POSTER SESSION B

| Authors Contribution title | Poster. No |
|---|---------------|
| <i>Thuan Bui Dinh, Van Cao Long, Wiesław Leoński</i> Solitary waves in an elastic rod - analytical solutions | B 30 |
| <i>Dalibor Ciprian, Petr Hlubina</i> Metal oxide layer influence on the sensitivity of SPR fiber optic sensor | B 19 |
| <i>Jakub Čubík, Stanislav Kepák, Jan Dořičák, Vladimír Vašínek</i> Interferometric sensor based on the polarization-maintaining fibers | B 17 |
| <i>Martin Hamar, Ondřej Haderka, Václav Michálek, Jan Peřina Jr.</i> Generation of squeezed states by parametric fluorescence | B 29 |
| <i>Milan Holík, Břetislav Mikel, František Urban</i> Stimulated Brillouin scattering for generating an acoustic wave in optical fibers | B 21 |
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