

## PALS publication 2006-2008

### *High Power Lasers*

T. Mocek, B. Rus, K. Jakubczak, J. Dostál, D. Snopek, M. Kozlová, J. Polan, M. Pfeifer, D. Holla, P. Hříbek: **Development of 20TW laser and interaction facility at PALS**, International Conference on Ultrahigh Intensity Lasers (ICUIL 2008), 27-31 October 2008, Tongli, China.

K. Jungwirth: **Presentation of ELITPALS - Extreme Light Infrastructure**, Slavnostní konference k zahájení operačního programu Výzkum a vývoj pro inovace, 8. prosince 2008, Ostrava.

J. Ullschmied: **Laser Plasma Research at the PALS Research Centre - the Present and the Future**, 23rd Symposium on Plasma Physics and Technology, Prague, June 16-19, 2008, Book of Abstracts p. 74

J. Dostál, M. Divoký, M. Smrž, O. Novák, J. Huynh, L. Král, H. Turčičová, B. Králiková, P. Straka: **SOFIA iodine laser system as a driver for OPCPA**, International Conference on Ultrahigh Intensity Lasers (ICUIL 2008), 27-31 October 2008, Tongli, China.

O. Novák, M. Divoký, P. Bohm, M. Smrž, R. Sedlář, P. Straka, H. Turčičová: **Proposal of ultra-high-power beams at the kilojoule iodine laser PALS**, International Conference on Ultrahigh Intensity Lasers (ICUIL 2008), 27-31 October 2008, Tongli, China.

M. Divoký, P. Straka: **Simple two-dimensional-imaging spectrograph with wedged narrow band filters**, Rev. Sci. Instrum. **79**, 123114 (2008).

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L. Kral: **Solid-state optical parametric oscillator with a closed-loop wavelength stabilization as a front-end of a high-power iodine laser system**, Conference on Laser and Electro-Optics, 17-22 June 2007, Munich, Germany.

K. Jungwirth: **Highlights of the Laser Plasma Research at PALS, PLASMA 2007 (invited lecture)** - International Conference on Research and Applications of Plasmas, Oct. 16 - 19, 2007 Greifswald, Germany.

Turcicova H., Dostal J., Kocourkova G., Cerny P., Divoky M., Smrz M., Straka P.: **Amplification of ultrashort laser pulses by the OPCPA method at SOFIA laboratory**; Acta Physica Slovaca **56** (2): 115-118, Apr 2006

J. Ullschmied: **Overview of Laser Plasma Experiments at PALS**; 29th ECLIM conference, Madrid, June 11-16, 2006, invited paper MO-3-1, Proceedings 29th ECLIM.

H. Turcicova, J. Skala, P. Straka, J. Dostal, G. Kocourkova, J. Knyttl, M. Divoky, M. Smrz, O. Novak, P. Bohm, A. Dombrovsky: **Application of the hybrid laser SOFIA for OPCPA pumping**; The European Conference on Lasers and Electro-Optics (CLEO®/Europe), The European Quantum Electronics Conference (EQEC) 16-16 June 2005, Munchen, Germany

Turcicova H., Straka P., Dostal J., Divoky M., Smrz M., Novak O., Bohm P.: **Iodine laser system SOFIA used as a pump for OPCPA**; International Conference on Ultrahigh Intensity Lasers (ICUIL 2006), September 25-29, 2006, Cassis, France

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### *Laser Interaction with Matter*

- A. Kasperczuk, T. Pisarczyk, M. Kalal, J. Ullschmied, E. Krousky, K. Masek, M. Pfeifer, K. Rohlena, J. Skala, P. Pisarczyk: **Influence of target material on structure of the plasma outflow produced by a partly defocused laser beam**, Applied Physics Letters 94, 081501 (2009)
- J. Limpouch, O. Renner, N. G. Borisenko, D. Klir, V. Kmetik, E. Krouský, R. Liska, K. Mašek, W. Nazarov, J. Ullschmied: **Applications of low-density foams for x-ray source studies and laser beam smoothing**, J. Phys.: Conf. Ser. 112 (2008) 042056(1) - 042056(4).
- V. Rozanov, D. Barishpoltsev, G. Vergunova, S. Gus'kov, N. Demchenko, I. Y. Doskoch, E. Ivanov, E. Aristova, N. Zmitrenko, J. Limpouch, D. Klir, E. Krouský, K. Mašek, V. Kmetík, J. Ullschmied: **Energy transfer in low-density porous targets doped by heavy elements**, J. Phys.: Conf. Ser. 112 (2008) 022010(1) - 022010(4).
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### *Plasma Jets*

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