

Publications of the department in 2005

Journals

- [1] K. Jungwirth: **Recent highlights of the PALS research program**; Laser and Particle Beams 23 (2): 177-182 June 2005
- [2] L. Juha, M. Bittner, D. Chvostova, V. Letal, J. Krasa, Z. Otcenasek, M. Kozlova, J. Polan, A.R. Prag, B. Rus, M. Stupka, J. Krzywinski, A. Andrejczuk, J.B. Pelka, R. Sobierajski, L. Ryc, J. Feldhaus, F.P. Boody, M.E. Grisham, G.O. Vaschenko, C.S. Menoni, J.J. Rocca; **XUV-laser induced ablation of PMMA with nano-, pico-, and femtosecond pulses**; Journal of Electron Spectroscopy and Related Phenomena 144: 929-932 Sp. Iss. SI, JUN 2005
- [3] S. Gammino, G. Ciavola, L. Torrisi, L. Celona, L. Ando, S. Mancagli, F. Consoli, A. Galata, A. Picciotto, A.M. Mezzasalma, J. Krasa, L. Laska, M. Pfeifer, K. Rohlena, J. Wolowski, E. Woryna, P. Parys, G.D. Shirkov, D. Hitz; **Production of highly charged heavy ions by means of a hybrid source in DC mode and in afterglow mode**; Plasma Processes and Polymers 2 (6): 458-463 July 2005
- [4] L. Laska, K. Jungwirth, J. Krasa, M. Pfeifer, K. Rohlena, J. Ullschmied; **The effect of pre-plasma and self-focusing on characteristics of laser produced ions**; Czechoslovak Journal of Physics 55 (6): 691-699 June 2005
- [5] M. Rosinski, J. Badziak, F.P. Boody, S. Gammino, H. Hora, J. Krasa, L. Laska, A.M. Mezzasalma, P. Parys, K. Rohlena, L. Torrisi, J. Ullschmied, J. Wolowski, E. Woryna; **Application of laser ion source for ion implantation technology**; Vacuum 78 (2-4): 435-438 May 2005 and Proceedings of the fifth International Conference on Ion Implantation and other Applications of Ions and Electrons (ION 2004); 14-17 June 2004
- [6] J. Badziak, P. Parys, J. Wolowski, H. Hora, J. Krasa, L. Laska, K. Rohlena; **Fast ion generation by a picosecond high-power laser**; Optica Applicata 35 (1): 5-22 2005
- [7] L. Laska, K. Jungwirth, J. Krasa, M. Pfeifer, K. Rohlena, J. Ullschmied, J. Badziak, P. Parys, J. Wolowski, S. Gammino, L. Torrisi, F.P. Boody; **Charge-state and energy enhancement of laser-produced ions due to nonlinear processes in preformed plasma**; Applied Physics Letters 86 (8): Art. No. 081502, February 2005
- [8] J. Badziak, S. Glowacz, S. Jablonski, P. Parys, J. Wolowski, H. Hora, J. Krasa, L. Laska, K. Rohlena; **Production of ultrahigh ion current densities at skin-layer subrelativistic laser-plasma interaction**; Plasma Physics and Controlled Fusion 46: B541-B555 Sp. Iss. SI Suppl. 12B, December 2004
- [9] J. Krasa, A. Lorusso, D. Doria, F. Belloni, V. Nassisi, K. Rohlena; **Time-of-flight profile of multiply-charged ion currents produced by a pulse laser**; Plasma Physics and Controlled Fusion 47 (8): 1339-1349, August 2005
- [10] A. Lorusso, J. Krasa, K. Rohlena, V. Nassisi, F. Belloni, D. Doria; **Charge losses in expanding plasma created by an XeCl laser**; Applied Physics Letters 86 (8): Art. No. 081501 February 2005
- [11] S. Borodziuk, N.N. Demchenko, S.Y. Gus'kov, K. Jungwirth, M. Kalal, A. Kasperczuk, V.N. Kondrashov, B. Kralikova, E. Krousky, J. Limpouch, K. Masek, P. Pisarczyk, T. Pisarczyk, M. Pfeifer, K. Rohlena, V.B. Rozanov, J. Skala, J. Ullschmied; **High power laser interaction with single and double layer targets**; Optica Applicata 35 (2): 241-262 2005
- [12] K. Rohlena, L. Laska, K. Jungwirth, J. Krasa, E. Krousky, M. Masek, M. Pfeifer, J. Ullschmied, J. Badziak, P. Parys, J. Wolowski, S. Gammino, L. Torrisi, F.P. Boody; **Characteristics and applications of ion streams produced by long-pulse lasers**; 32nd EPS Conference on Plasma Phys. Tarragona, 27 June - 1 July 2005, Plasma Phys. Control. Fusion, (2005) B503-B512
- [13] J. Limpouch, N.N. Demchenko, S.Y. Gus'kov, A.I. Gromov, M. Kalal, A. Kasperczuk, V.N. Kondrashov, E. Krousky, K. Masek, M. Pfeifer, P. Pisarczyk, T. Pisarczyk, K. Rohlena, V.B. Rozanov, M. Sinor, J. Ullschmied; **Laser interactions with low-density plastic foams**; Laser and Particle Beams 23 (3): 321-325 Sep 2005
- [14] L. Láska, K. Jungwirth, J. Krásá, M. Pfeifer, K. Rohlena, J. Ullschmied, J. Badziak, P. Parys, J. Wolowski, S. Gammino, L. Torrisi, F.P. Boody; **Self-focusing in processes of laser generation of highly-charged and high-energy heavy ions**; (invited), 2nd Int. Conf. On the Frontiers of Plasma Physics and Technology, February 22-26, Goa, India 05, Laser and Particle Beams, in press
- [15] A. Lorusso, F. Belloni, D. Doria, V. Nassisi, J. Wolowski, J. Badziak, P. Parys, J. Krásá, L. Láska, F.P. Boody, L. Torrisi, A. Mezzasalma, A. Picioto, S. Gammino, L. Clcagnile, G. Quarta, D. Bleiner; **Modifications of materials by high energy plasma ions**; Nuclear Instruments and Methods B 240 (2005) 229-233

- [16] L. Láska, L. Ryć, J. Badziak, F.P. Boody, S. Gammino, K. Jungwirth, J. Krásá, E. Krouský, A. Mezzasalma, P. Parys, M. Pfeifer, K. Rohlena, L. Torrisi, J. Ullschmied, J. Wolowski; **Correlation of highly-charged ion and X-ray emission from the laser produced plasma in the presence of non-linear phenomena**; 2nd Workshop PIBHI 2005, June 8-11, Giardini Naxos, Italy, Radiation Effects and Defects in Solids, in press
- [17] S. Y. Gus'kov, S. Borodziuk, M. Kalal, A. Kaspereczuk, V. N. Kondrashov, J. Limpouch, P. Pisarczyk, T. Pisarczyk, K. Rohlena, J. Skala, J. Ullschmied; **Investigation of shock wave loading and crater creation by means of single and double targets in the PALS-laser experiment**; Journal of Russian Laser Research, 26 (3), 228-244, 2005.
- [18] A. Picciotto, J. Krásá, L. Láska, K. Rohlena, L. Torrisi, S. Gammino, A.M. Mezzasalma, F. Caridi; **Plasma temperature and ion current analysis of gold ablation at different laser power rates**; Nuclear Instruments and Methods B- submitted
- [19] N.G. Borisenco, I.V. Akimova, A.I. Gromov, A.M. Khalenkov, Y.A. Merkuliev, V.N. Kondrashov, J. Limpouch, J. Kuba, E. Krousky, K. Masek, W. Nazarov, V.G. Pimenov: **Regular 3-D Networks with Clusters for Controlled Energy Transport Studies in Laser Plasma near Critical Density**, Fusion Science and Technology 49 (2006) (accepted).
- [20] L. Juha, M. Bittner, D. Chvostova, J. Krasa, Z. Otcenasek, A.R. Prag, J. Ullschmied, Z. Pientka, J. Krzywinski, J.B. Pelka, A. Wawro, M.E. Grisham, G. Vaschenko, C.S. Menoni, J.J. Rocca; **Ablation of organic polymers by 46.9-nm-laser radiation**; Applied Physics Letters 86 (3): Art. No. 034109, January 2005
- [21] Kubes P., Kravarik J., Klir D., Barvir P., Scholz M., Paduch M., Tomaszewski K., Ivanova-Stanik I., B. Bioenkowska, Karpinski L., Juha L., Krasa J., Sadowski M., Jakubowski L., Szydlowski A., Banaszak A., H. Schmidt, V.M. Romanova: **Study of X-ray and neutron emission in experiments with Al wire in MA plasma focus**, Plasma Physics Reports 31 No5 (2005) pp.422-431.
- [22] L. Juha, M. Bittner, D. Chvostova, J. Krasa, M. Kozlova, M. Pfeifer, J. Polan, A.R. Prag, B. Rus, M. Stupka, J. Feldhaus, V. Letal, Z. Otcenasek, J. Krzywinski, R. Nietubyc, J. B. Pelka, A. Andrejczuk, R. Sobierajski, L. Ryc, F. P. Boody, H. Fiedorowicz, A. Bartnik, J. Mikolajczyk, R. Rakowski, P. Kubat, L. Pina, M. Horvath, M. E. Grisham, G. O. Vaschenko, C. S. Menoni, J. J. Rocca; **Short-wavelength ablation of molecular solids: pulse duration and wavelength effects**; J. Microlith. Microfab. Microsyst. 4(3), 033007 (2005)

Conferences

- [44] L. Juha, M. Bittner, M. De Grazia, J. Feldhaus, J. Gaudin, S. Guizard, S. Jacobi, M. Kozlova, J. Krasa, J. Krzywinski, H. Merdji, C. Michaelsen, T. Mocek, R. Nietubyc, M. Jurek, J. Polan, A. R. Prag, B. Rus, R. Sobierajski, B. Steeg-Keitel, M. Stoermer, M. Stupka, V. Vorlicek, J. Wiesmann, J. Wild; **Radiation damages to amorphous-carbon optical coatings**; Proc. SPIE Vol. 5917, p. 91-96, Fourth Generation X-Ray Sources and Optics III, August 2005
- [45] D. Babankova, L. Juha, S. Civis, M. Bittner, J. Cihelka, A. Bartnik, H. Fiedorowicz, J. Mikolajczyk, L. Ryc, M. Pfeifer, J. Skala, J. Ullschmied; **Large laser sparks for laboratory simulation of high-energy-density events in planetary atmospheres**; Proc. SPIE Vol. 5906, p. 336-345, Astrobiology and Planetary Missions
- [46] 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
- [47] M. Divoky, P. Straka, P. Bohm; **Off-plane diffraction in pulse strecher and compressor**; The European Conference on Lasers and Electro-Optics (CLEO®/Europe), The European Quantum Electronics Conference (EQEC) 16-16 June 2005, Munchen, Germany
- [48] L. Laska, J. Badziak, F.P. Boody, S. Gammino, L. Juha, K. Jungwirth, J. Krásá, E. Krouský, A. Mezzasalma, P. Parys, M. Pfeifer, K. Rohlena, L. Ryc, L. Torrisi, J. Ullschmied, J. Wolowski; **Several promising application possibilities of high-power lasers**; 5th International Symposium on Applied Plasma Science, 26-30 September, 2005, Hawaii, USA, Proc. ISAPS'05, p.289-294
- [49] J. Limpouch, N. G. Borisenco, N. N. Demchenko, S. Y. Gus'kov, A. Kaspereczuk, A. M. Khalenkov, V. N. Kondrashov, E. Krousky, J. Kuba, K. Masek, W. Nazarov, P. Pisarczyk, T. Pisarczyk, M. Pfeifer, V. B. Rozanov, J. Ullschmied; **Laser Interactions with Foam-Foil Layered Targets**; 32nd EPS Conference on Plasma Phys. Tarragona, 27 June - 1 July 2005 ECA Vol.29C, O-2.022 (2005)
- [50] T. Pisarczyk, S. Borodziuk, N. N. Demchenko, S. Y. Gus'kov, K. Jungwirth, M. Kala, A. Kaspereczuk, V. N. Kondrashov, B. Kralikova, E. Krousky, J. Limpouch, K. Masek, M. Pfeifer, P. Pisarczyk, K. Rohlena, V. B.

- Rozanov, J. Skala, J. Ullschmied; **Optical investigation of flyer disk acceleration and collision with massive tar get on the PALS laser facility**; 32nd EPS Conference on Plasma Phys. Tarragona, 27 June - 1 July 2005 ECA Vol.29C, P-1.141 (2005)
- [51] S. Borodziuk, N. N. Demchenko, S. Y. Gus'kov, K. Jungwirth, M. Kalal, A. Kaspereczuk, B. Kralikova, E. Krousky, V. N. Kondrashov, J. Limpouch, K. Masek, M. Pfeifer, P. Pisarczyk, T. Pisarczyk, K. Rohlena, V. B. Rozanov, J. Skala, J. Ullschmied; **Numerical modelling of strong shock waves and craters for the experiments using single and double solid tar gets irradiated by high power iodine laser (PALS)**; 32nd EPS Conference on Plasma Phys. Tarragona, 27 June - 1 July 2005 ECA Vol.29C, P-1.142 (2005)
- [52] L. Torrisi, S. Gammino, A. Picciotto, L. Andò, L. Laska, J. Krasa, K. Rohlena, J. Wolowski; **Measurements of “Equivalent ion temperature” in plasma pulse laser-generated at INFN-LNS and PALS**; 32nd EPS Conference on Plasma Phys. Tarragona, 27 June - 1 July 2005 ECA Vol.29C, P-1.144 (2005)
- [53] J. Wolowski, J. Badziak, A. Czarnecka, S. Gammino, J. Krása, L. Láska, A. Mezzasalma, P. Parys, M. Pfeifer, K. Rohlena, M. Rosinski, L. Torrisi, J. Ullschmied; **Interaction of high-energy laser pulses with plasmas of different density gradients**; 32nd EPS Conference on Plasma Phys. Tarragona, 27 June - 1 July 2005 ECA Vol.29C, P-1.147 (2005)
- [54] J. Krása, L. Torrisi, A. Piccoto, D. Margarone, L. Láska, K. Rohlena; **Retrieval of currents of differently charged ions emitted from laser-produced carbon plasma**; 2nd Workshop PIBHI 2005, June 8-11, Giardini Naxos, Italy
- [55] J. Wolowski, J. Badziak, A. Czarnecka, F.P. Boody, S. Gammino, J. Krása, L. Láska, A. Mezzasalma, P. Parys, M. Rosinski, K. Rohlena, L. Torrisi, J. Ullschmied; **Characteristics of laser-produced Ge ion streams used for modification of semiconductor materials**; 2nd Workshop PIBHI 2005, June 8-11, Giardini Naxos, Italy
- [56] F.P. Boody, J. Badziak, H.-A. Eckel, S. Gammino, J. Krása, L. Láska, A.J. Pakhomov, P. Parys, M. Pfeifer, K. Rohlena, W. Schall, L. Torrisi, J. Wolowski; **The ALP-PALS project: optimal coupling for laser propulsion**; 2nd Workshop PIBHI 2005, June 8-11, Giardini Naxos, Italy, Radiation Effects and Defects in Solids
- [57] L. Torrisi, S. Gammino, A. Picciotto, J. Wolowski, J. Krása, L. Láska, L. Calcagnille, G. Quarta; **RBS analysis of ions implanted in light substrates exposed to hot plasmas laser-generated at PALS**; 2nd Workshop PIBHI 2005, June 8-11, Giardini Naxos, Italy, Radiation Effects and Defects in Solids
- [58] A. Picciotto, L. Torrisi, S. Gammino, F. Caridi, D. Margarone, A.M. Mezzasalma, L. Ando, J. Krása, L. Láska, J. Wolowski; **Temperature measurements in plasmas generated by using lasers at different intensities**; 2nd Workshop PIBHI 2005, June 8-11, Giardini Naxos, Italy, Radiation Effects and Defects in Solids
- [59] L. Láska; **Selected results relevant to the ion diagnostics and to the characteristics of ions produced at PALS experiments**; Int. Conf. PLASMA-2005 on Research and Applications of Plasmas combined with the 3rd German-Polish Conference on Plasma Diagnostics for Fusion and Applications and the 5th French-Polish Seminar on Thermal Plasma in Space and Laboratory, Opole-Turawa, Poland, September 6-9, 2005, Book of Abstracts, (invited), p. 26, AIP Conf. Pro., in press
- [60] L. Ryć, J. Krása, L. Láska, K. Rohlena, J. Skála; **Three-hump curve of laser plasma X-ray emission vs. Varied focusing conditions**; Int. Conf. PLASMA-2005 on Research and Applications of Plasmas combined with the 3rd German-Polish Conference on Plasma Diagnostics for Fusion and Applications and the 5th French-Polish Seminar on Thermal Plasma in Space and Laboratory, Opole-Turawa, Poland, September 6-9, 2005, Book of Abstracts, p. 87
- [61] M. Rosinski, J. Wolowski, J. Badziak, F.P. Boody, S. Gammino, J. Krása, L. Láska, A. Mezzasalma, P. Parys, M. Pfeifer, K. Rohlena, L. Torrisi, J. Ullschmied; **Investigation of Plasma Produced by High-energy Low-intensity Laser Pulses for Implantation of Ge Ions into Si and SiO₂ Substrates**; Int. Conf. PLASMA-2005 on Research and Applications of Plasmas combined with the 3rd German-Polish Conference on Plasma Diagnostics for Fusion and Applications and the 5th French-Polish Seminar on Thermal Plasma in Space and Laboratory, Opole-Turawa, Poland, September 6-9, 2005, Book of Abstracts p. 89
- [62] L. Torrisi, S. Gammino, A. Picciotto, D. Margarone, L. Laska, J. Krasa, K. Rohlena, J. Wolowski; **Temperature measurements in plasma produced by high power lasers interacting solid targets**; Proc. 11th Int. Conf. On Ion Sources, ICIS05, Caen, France, September 12-16, 2005
- [63] T. Pisarczyk, S. Borodziuk, N.N. Demchenko, S.Y. Gus'kov, K. Jungwirth, M. Kalal, A. Kaspereczuk, B. Kralikova, E. Krousky, J. Limpouch, K. Masek, P. Pisarczyk, M. Pfeifer, K. Rohlena, V.B. Rozanov, J. Skala, J.Ullschmied ; **Optical investigation of powerful laser actions on massive and flyer targets**; International Conference Plasma 2005 & 3rd GPPD & 5th FPSTP, Opole-Turawa, September 6-9, 2005 , I-11 (2005)

- [64] A. Kasperczuk, S. Borodziuk, N.N. Demchenko, S.Y. Gus'kov, K. Jungwirth, M. Kalal, B. Kralikova, E. Krousny, J. Limpouch, K. Masek, P. Pisarczyk, T. Pisarczyk, M. Pfeifer, K. Rohlena, V.B. Rozanov, J. Skala, J. Ullschmied; **Plasma and shock generation by indirect laser pulse action**; International Conference Plasma 2005 & 3 rd GPPD & 5 th FPSTP, Opole-Turawa, September 6-9, 2005, P4-01 (2005)
- [65] S. Borodziuk, N.N. Demchenko, S.Y. Gus'kov, K. Jungwirth, M. Kalal, A. Kasperczuk, B. Kralikova, E. Krousny, J. Limpouch, K. Masek, P. Pisarczyk, T. Pisarczyk, M. Pfeifer, K. Rohlena, V.B. Rozanov, J. Skala, J. Ullschmied ; **Flyer target acceleration and energy transfer at its collision with massive targets**; International Conference Plasma 2005 & 3 rd GPPD & 5 th FPSTP . Opole-Turawa, September 6-9, 2005, P4-08 (2005).
- [66] M. Kalal, S. Borodziuk, N.N. Demchenko, S.Yu. Gus'kov, K. Jungwirth, A. Kasperczuk, V.N. Kondrashov, B. Kralikova, E. Krousny, J. Limpouch, K. Masek, P. Pisarczyk, T. Pisarczyk, M. Pfeifer, K. Rohlena, V.B. Rozanov, J. Skala, J. Ullschmied; **High Power Laser Interaction with Single and Double Layer Targets**; Proceedings of 28th ECLIM, pp. 249-260,
- [67] J. Limpouch, N.N. Demchenko, S.Yu. Gus'kov, A.I. Gromov, M. Kalal, A. Kasperczuk, V.N. Kondrashov, E. Krousny, K. Masek, M. Pfeifer, P. Pisarczyk, T. Pisarczyk, K. Rohlena, V.B. Rozanov, M. Sinor, J. Ullschmied; **Laser interactions with low-density plastic foams**; Proceedings of 28th ECLIM, pp. 261-265.
- [68] S.Yu. Gus'kov, S. Borodziuk, N.N. Demchenko, K. Jungwirth, M. Kalal, A. Kasperczuk, V.N. Kondrashov, B. Kralikova, E. Krousny, J. Limpouch, K. Masek, P. Pisarczyk, T. Pisarczyk, M. Pfeifer, K. Rohlena, V.B. Rozanov, J. Skala, J. Ullschmied; **Ablation loading efficiency and shock wave generation driven by powerful laser pulse of different wavelengths**; Proceedings of 28th ECLIM, pp. 266-270.
- [69] T. Pisarczyk, S. Borodziuk, N.N. Demchenko, S.Yu. Gus'kov, K. Jungwirth, M. Kalal, A. Kasperczuk, V.N. Kondrashov, B. Kralikova, E. Krousny, J. Limpouch, K. Masek, P. Pisarczyk, M. Pfeifer, K. Rohlena, V.B. Rozanov, J. Skala, J. Ullschmied; **Energy transfer and shock wave generation at the collision of laser-driven macroparticle**; Proceedings of 28th ECLIM, pp. 465-469.
- [70] M. Kalal, K. Jungwirth, E. Krousny, K. Masek, M. Pfeifer, K. Rohlena, B. Rus, J. Skala, J. Ullschmied; **Prague Asterix Laser System - PALS: Overview of Latest Activities** (Invited), 2nd Int. Conf. On the Frontiers of Plasma Physics and Technology, February 22-26, Goa, India 05
- [71] L. Ryc, P. Machac, A. Bartnik, L. Juha, J. Kaczmarczyk, J. Krasa, J. Mikolajczyk, M. Bittner, M. Pfeifer and J. Ullschmied, **Application of Resistive Bolometer to Measurement of X-ray Radiation from Laser Plasmas**, Int. Conf. PLASMA-2005 on Research and Applications of Plasmas combined with the 3rd German-Polish Conference on Plasma Diagnostics for Fusion and Applications and the 5th French-Polish Seminar on Thermal Plasma in Space and Laboratory, Opole-Turawa, Poland, September 6-9, 2005, AIP Conf. Proc.
- [72] H. Turčičová, J. Dostal, G. Kocourkova, J. Knyttl, J. Skala, M. Pfeifer, M. Divoky, M. Smrz, O. Novak, P. Bohm, A. Dombrovsky, W. Belardi, P. Straka: **Solid-state-gas-laser SOFIA as a pump for the optical parametric chirped pulse amplification**, Proc. SPIE Vol. 5777 (March 2005) 631-635
- [73] M. Divoký, P. Straka: **Pulse stretcher for chirped-pulse amplification with high-power and spectral transmissions**, Proc. SPIE Vol. 5777 (March 2005) 762-765
- [74] M. Smrz, P. Straka: **Measurement of sub-15-fs laser pulses by a light-emitting diode**, Proc. SPIE Vol. 5777, pp. 646-649, 2005
- [75] H. Fiedorowicz, A. Bartnik, M. Bittner, L.Juha, J. Krasa, P. Kubat, J. Mikolajczyk, R. Rakowski: **Photo-etching of organic polymers using a laser plasma x-ray source based on a gas puff target irradiated with the PALS facility**, Proc. SPIE 5777, pp. 970-973 (2005)
- [76] D. Doria, F. Belloni, A. Lorusso, I. Krasa, V. Nassisi, K. Rohlena, L. Velardi; **Recombination effects during the laser-produced plasma expansion**, 2nd Workshop PIBHI 2005, June 8-11, Giardini Naxos, Italy, Radiation Effects and Defects in Solids
- [77] F. Caridi, L. Torrisi, A. Picciotto, A.M. Mezzasalma, S. Gammino, D. Margarone, J. Krasa: **Neutrals' temperature in plasma laser-generated at LNS**, 2nd Workshop PIBHI 2005, June 8-11, Giardini Naxos, Italy, Radiation Effects and Defects in Solids
- [78] K. Rohlena, L. Laska, K. Jungwirth, J. Krasa, E. Krousny, M. Masek, M. Pfeifer, J. Badziak, P. Parys, T. Pisarczyk, J. Wolowski, S. Gammino, L. Torrisi: **Ions from expanding laser plasmas**, Fourth Int. Conf. on Inertial Fusion Sciences and Applications, IFSA 2005, Biarritz, France, September 4-9, 2005, J. Phys. IV France 1 (2005)
- [79] J. Wolowski, J. Badziak, S. Gammino, J. Krasa, L. Laska, A. Mezzasalma, P. Parys, M. Pfeifer, K. Rohlena, M. Rosinski, L. Torrisi, J. Ullschmied: **Implantation of Ge ions into Si and SiO₂ substrates with the use of Ge ions produced by high-energy low-intensity laser pulses**, Proc First. Int. Workshop on Semiconductor Nanocrystals, SEMINANO 2005, September 10-12, 2005, Budapest, p. 157-160

- [80] P. Kubes, J. Kravarik, D. Klir, P. Barvir, M. Scholz, M. Paduch, K. Tomaszewski, I. Ivanova-Stanik., B. Bioenkowska, L. Karpinski, L. Juha, J. Krasa, M. Sadowski, L. Jakubowski, A. Szydlowski, A. Malinowska, K. Malinowski, H. Schmidt; **Characteristics of Neutron Pulses at PF-1000**; Abstracts 6th Int. Conf. on Dense Z-Pinches, Oxford 2005, p.54.
- [81] P. Kubes, J. Kravarik, P. Barvir, D. Klir, M. Scholz, M. Paduch, K. Tomaszewski, B. Bioenkowska, L. Karpinski, J. Krasa, M. Sadowski, E. Skladnik-Sadowska, L. Jakubowski, A. Szydlowski, A. Malinowska, K. Malinowski, H. Schmidt, A. Tsarenko; **Correlation of Radiation and Electron and Neutron Signals at PF-1000**; Book of Abstracts, Int. Conf. Plasma 2005, Opole, Poland, p.38.
- [82] M. Bittner, L. Juha, B.Rus, M. Kozlova, J. Krasa, Z. Otcenasek, J. Polan, A. R. Praeg, M. Stupka, L. Ryc, R.d H. Sobierajski: **Material ablation induced by focused 21.2-nm radiation from Ne-like Zn x-ray laser**, Proc. SPIE 5777, pp. 965-969 (2005)
- [83] I.V. Akimova, N.G. Borisenko, A.I. Gromov, A.M. Khalenkov, V.G. Pimenov, V.N. Kondrashov, S.F. Medovshikov, J. Limpouch, E. Krousky, K. Masek, J. Kuba, M. Pfeifer; **Intensive (up to 10^{15} W/cm²) laser light absorption and energy transfer in subcritical media with or without high-Z dopants**; Book of abstracts of VIII Zababakhin Scientific Talks, 2005, Snezhinsk, Russia, p. 92-93. Proceedings of VIII Zababakhin Scientific Talks (International conference), 2005, Snezhinsk, Russia (in press).