

8 Contribution to conferences and workshops

- [1] *J. Badziak*: Efficient acceleration of ion beams and macroparticles for fast ignition in the LICPA accelerator, 10th Direct Drive and Ignition Workshop, 27–31.05.2012, Prague, Czech Republic
- [2] *J. Badziak*: Highly efficient laser-induced cavity pressure acceleration of dense plasma, 39th EPS Conf. on Plasma Physics and 16th Intern. Congress on Plasma Phys., 2-6.07.2012, Stockholm, Sweden
- [3] *J. Badziak*: Laser-induced cavity pressure acceleration of dense plasma and ion beams. ECLIM 2012 32nd European Conf. on Laser Interaction with Matter (ECLIM 2012), 10-14.09.2012, Warsaw, Poland
- [4] *B. Bieg, J. Chrzanowski, Yu.A. Kravtsov, F. Orsitto*: Efficiency of theoretical approaches, applied in plasma polarimetry. 39th European Physical Society Conference on Plasma Physics, 16th International Congress on Plasma Physics, 2-6.07.2012, Stockholm, Sweden
- [5] *B. Bieg, Yu.A. Kravtsov, M. Cieplik*: Calibration procedure for plasma polarimetry based on the complex amplitude ratio measurements. 27th Symposium on Fusion Technology, 24-28.09.2012, Liege, Belgium
- [6] *B. Bieg, J. Chrzanowski, Yu.A. Kravtsov*: Discontinuous behaviour of polarization angular parameters at the poles of Poincare sphere. XVIII Czech-Polish-Slovak Optical Conference, 3-7.09.2012, Ostravice, Czech Republic
- [7] *B. Bieg, Yu.A. Kravtsov, F.P. Orsitto and EFDA-JET Contributors*: Efficiency of theoretical approaches, applied in plasma polarimetry. EFDA Workshop on Equilibrium Reconstruction, 14-16.11.2012, Culham, England
- [8] *S. Borodziuk*: Fast and dense macroparticles accelerated by iodine laser radiation of PALS. ECLIM 2012 32nd European Conf. on Laser Interaction with Matter (ECLIM 2012), 10-14.09.2012, Warsaw, Poland
- [9] *T. Chodukowski*: Correlation of electron density distributions and neutron emission during characteristic phases of plasma column evolution in PF-1000 device, 39th IEEE International Conference on Plasma Science, 8-12.07.2012, Edinburgh, Great Britain
- [10] *T. Chodukowski*: Three-frame interferometric/shadowgraphic system for plasma research at PALS laboratory. ECLIM 2012 32nd European Conf. on Laser Interaction with Matter (ECLIM 2012), 10-14.09.2012, Warsaw, Poland
- [11] *J. Chrzanowski, Yu.A. Kravtsov, D. Mazon*: Multi-parameter gradient procedure for polarimetry data inversion in tokamak plasma. 27th Symposium on Fusion Technology, 24-28.09.2012, Liege, Belgium
- [12] *J. Chrzanowski*: Application of the gradient method for polarimetric data inversion. Operation of machines and equipment, 4-8.09.2012, Oslo, Norway
- [13] *J. Cieślak, S.M. Dubiel*: Influence of internal strain on alpha-sigma transformation kinetics. Euratom MAT-IREMEV Monitoring Meeting, 3-5.12.2012, Garching, Germany

- [14] *J. Cieślak, J. Toboła, S.M. Dubiel*: Sigma-phase in Fe-Mo alloys - calculation of Gibbs free energy and energy of formation using KKR method. Euratom MAT-IREMEV Monitoring Meeting, 3-5.12.2012, Garching, Germany
- [15] *Ł. Ciupiński*: TEM observations of radiation damage in self-irradiated tungsten 19th International Workshop on Inelastic Ion-Surface Collisions (IISC-19) 16 – 21 September 2012, Frauenchiemsee, Germany
- [16] *A. Czarnecka*: Impurity behaviour during ICRH and NBI operation with ITER-like wall at JET, 39th EPS Conf. on Plasma Physics and 16th Intern. Congress on Plasma Phys., 2-6.07.2012, Stockholm, Sweden
- [17] *A. Czarnecka*: Spectroscopic and corpuscular analysis of laser-produced carbon plasma. Intern. Conf. and School on Plasma Physics and Controlled Fusion, 17-22.09.2012, Alushta (Crimea), Ukraine
- [18] *J. Domański*: Generation of relativistic ion beam driven by an ultraintense laser, 39th IEEE International Conference on Plasma Science, 8-12.07.2012, Edinburgh, Great Britain
- [19] *J. Domański*: Acceleration of and C ions to GeV energies at the interactions of an ultra-intense laser pulse with a CH target. ECLIM 2012 32nd European Conf. on Laser Interaction with Matter (ECLIM 2012), 10-14.09.2012, Warsaw, Poland
- [20] *S.M. Dubiel, J. Żukrowski*: Miscibility gap-related issues in Fe-Cr alloys as studied by the Mössbauer spectroscopy. Euratom MAT-IREMEV Monitoring Meeting, 13-18.06.2012, Ljubljana, Slovenia
- [21] *S.M. Dubiel, J. Cieślak*: Effect of metallurgical state on the short-range order in Fe-Cr alloys. Euratom MAT-IREMEV Monitoring Meeting, 13-18.06.2012, Ljubljana, Slovenia. *S. M. Dubiel, J. Żukrowski*: Study of phase separation in Fe-Cr alloys. International Symposium on the Industrial Applications of the Mössbauer Effect, 2-7.09.2012, Dalian, China
- [22] *S.M. Dubiel, J. Cieślak, H. Reuther*: Effect of He⁺ irradiation on Fe-Cr14 alloy: Mössbauer effect study. International Symposium on the Industrial Applications of the Mössbauer Effect, 2-7.09.2012, Dalian, China
- [23] *S.M. Dubiel, J. Żukrowski*: Phase-decomposition-related short-range ordering in Fe-Cr alloy. The 4th Joint Meeting of the International Conference on Hyperfine Interactions and International Symposium on Nuclear Quadrupole Interactions (HFI/NQI), 10-14.09.2012, Beijing, China
- [24] *S.M. Dubiel, J. Cieślak*: Effect of metallurgical state on the short-range order in Fe-Cr alloys. Euratom MAT-IREMEV Monitoring Meeting, 3-5.12.2012, Garching, Germany
- [25] *J.F. Seely, B.V. Weber, D.G. Phipps, N.R. Pereira, D. Mosher, K. Stabkowska, M. Polasik, J. Starosta, J. Rzakiewicz, U. Feldman, L. H. Hudson, J. W. Schumer*: Tungsten L Transition Line Shapes and Energy Shifts Resulting from Ionization in Warm Dense Matter. The 16th International Workshop on Radiative Properties of Hot Dense Matter, 05-09.11.2012, Santa Barbara, California;
- [26] *S. Jabłoński, A. Czarnecka, W. Figacz, M. Kubkowska, J. Kaczmarczyk, L. Ryć, J. Wołowski*: 1-D plasma X-ray radiation code as a first step for developing the fusion diagnostics. 39th EPS Conference, 2-6.07.2012, Stockholm, Sweden
- [27] *S. Jednoróg*: Shut down dose for large fusion devices, 25th Symposium on Plasma Physics and Technology, 18-21.06.2012, Prague, Czech Republic

- [28] *Z. Kalinowska*: Investigation of efficiency of laser radiation energy transport into a planar massive target made of Al, 39th IEEE International Conference on Plasma Science, 8-12.07.2012, Edinburgh, Great Britain
- [29] *Z. Kalinowska*: PALS investigation of mechanisms of laser radiation absorption. ECLIM 2012 32nd European Conf. on Laser Interaction with Matter (ECLIM 2012), 10-14.09.2012, Warsaw, Poland
- [30] *A. Kasperczuk*: Methods of backward and forward formation of metallic plasma jets at PALS, 39th EPS Conf. on Plasma Physics and 16th Intern. Congress on Plasma Phys., 2-6.07.2012, Stockholm, Sweden
- [31] *Yu.A. Kravtsov, B. Bieg, J. Chrzanowski*: Principle equivalence and practical difference between two approaches to plasma polarimetry: the Stokes vector formalism and the angular variables technique. 27th Symposium on Fusion Technology, 24-28.09.2012, Liege, Belgium
- [32] *Yu.A. Kravtsov, B. Bieg, J. Chrzanowski, D. Mazon*: Multi-parameter gradient procedure for fitting tokamak plasma model to polarimetric data. EFDA Workshop on Equilibrium Reconstruction, 14-16.11.2012, Culham, England
- [33] *M. Kubkowska, P. Gqsior*: Investigation of Effects of the Irradiation Parameters on Laser-Removal and Surface Morphology of Mixed Material Deposits and Substrates, 20th International Conference on Plasma Surface Interactions, 20-25.05.2012, Aachen, Germany
- [34] *M. Kubkowska*: 1-D plasma X-ray radiation code as a first step for developing the fusion diagnostics, 39th EPS Conf. on Plasma Physics and 16th Intern. Congress on Plasma Phys., 2-6.07.2012, Stockholm, Sweden
- [35] *J. Kurzyňa*: Optimization of IPPLM krypton Hall effect thruster, 25th Symposium on Plasma Physics and Technology, 18-21.06.2012, Prague, Czech Republic
- [36] *M. Lewandowska, Z. Oksiuta, N. Baluc, K.J. Kurzydłowski*: Improvement of fracture characteristics of ODS ferritic steels. MRS Spring Meeting, 9-13. 04,2012, San Francisco, USA
- [37] *Z. Oksiuta, M. Lewandowska, P. Kozikowski, M. Ohnuma, K.J. Kurzydłowski*: Microstructural changes upon annealing in ODS strengthened ultrafine grained ferritic steel, EMRS Fall Meeting, 17-21.09.2012
- [38] *T. Pisarczyk*: Interaction of the copper plasma jet with different media, 39th EPS Conf. on Plasma Physics and 16th Intern. Congress on Plasma Phys., 2-6.07.2012, Stockholm, Sweden
- [39] *M. Płóciennik, T. Žok, M. Owsiak, B. Palak, B. Guillerminet, Y. Frauel, F. Imbeaux, B. Scott*: High level tools for fusion simulations workflows in distributed computing environment. High Performance Computing and Simulation (HPCS), 2-6.06.2012, Madrid, Spain
- [40] *P. Rączka*: Highly efficient acceleration of dense plasma in the LICPA accelerator, 39th IEEE International Conference on Plasma Science, 8-12.07.2012, Edinburgh, Great Britain
- [41] *P. Rączka*: Particle production effects in laser-matter interactions at ultra-high intensities Application. Frontiers in Intense Laser-Matter Interaction Theory, 18-22.09.2012, Garching, Germany
- [42] *M. Rosiński, P. Gqsior*: Electrostatic field assisted laser implantation of Ge ions onto SiO₂ substrates with the use of industrial Nd:YAG lasers in the set-up of acceleration and deflection by a cylindrical electrode, E-MRS 2012, 13-18.05.2012, Strasbourg, France

- [43] *L. Ryc*: Multi-peak structure of fast-ion TOF spectra generated from plasmas at laser intensity higher than 10^{15} W/cm². ECLIM 2012 32nd European Conf. on Laser Interaction with Matter (ECLIM 2012), 10-14.09.2012, Warsaw, Poland
- [44] *L. Ryc*: Application of single-crystal CVD diamond and SiC detectors for diagnostics of ion emission from laser plasmas. Advanced Semiconductor Devices and Microsystems, 11-15.11.2012, Smolenice, Slovakia
- [45] *J. Rzakiewicz, M. Polasik, K. Słabkowska, J. Starosta, E. Szymańska, K. Koziół, M. Scholz, N. R. Pereira*: Influence of multiple outer-shell electron stripping on the K α and K β energies of iridium. The 16th International Conference on the Physics of Highly Charged Ions (HCI2012), 02-07.09.2012, Heidelberg, Germany;
- [46] *J. Rzakiewicz, M. Polasik, K. Słabkowska, J. Starosta, E. Szymańska, K. Koziół, M. Scholz, N. R. Pereira*: Plasma diagnostic based on x-ray line Shift due to the multiple outer-shell ionization. X-ray and XUV Plasma Sources and Applications Seminar, 06.11.2012, Prague, Czech Republic.
- [47] *K. Słabkowska, M. Polasik, K. Koziół, E. Wiatrowska-Koziół, J. Starosta, E. Szymańska, J. Rzakiewicz, M. Scholz*: Modelling of the spectrum structure for N-like (W^{67+}) through Na-like (W^{63+}) tungsten ions. The 16th International Conference on the Physics of Highly Charged Ions (HCI2012), 02-07.09.2012, Heidelberg, Germany;
- [48] *K. Słabkowska*: Influence of multiple outer-shell electron stripping on the $L\alpha_{12}$ and $L\beta_1$ energies of tungsten. The 16th International Conference on the Physics of Highly Charged Ions (HCI2012), 02-07.09.2012, Heidelberg, Germany;
- [49] *K. Słabkowska*: Influence of multiple outer-shell electron stripping on the $L\alpha_{12}$ and $L\beta_1$ energies of tungsten. The 16th International Workshop on Radiative Properties of Hot Dense Matter, 05-09.11.2012, Santa Barbara, California;
- [50] *A. Szydłowski*: Track detectors and their possible use within the COMPASS programme. COMPASS Programmatic Conference, 17.09.2012, Prague, Czech Republic
- [51] *J. Wołowski*: Optimisation of laser ion source with acceleration and deflection system for implantation of Ge ions into SiO₂ substrate. 39th EPS Conf. on Plasma Physics and 16th Intern. Congress on Plasma Phys., 2-6.07.2012, Stockholm, Sweden
- [52] *J. Wołowski*: Laser ion source with acceleration and deflection system for laser implantation technol. ECLIM 2012 32nd European Conf. on Laser Interaction with Matter (ECLIM 2012), 10-14.09.2012, Warsaw, Poland
- [53] *R. Zagórski*: Simulation with the COREDIV Code of Impurity Seeded Discharges of JET with ILW, Challenges of Power Exhaust in a Demonstration Fusion Power Plant, Comparative study of a conventional and snowflake divertor for the tokamak FAST, 20th International Conference on Plasma Surface Interactions, 20-25.05.2012, Aachen, Germany
- [54] *J. Żebrowski, L. Jakubowski, M.J. Sadowski, M. Rabiński, K. Malinowski, R. Mirowski, M.J. Jakubowski, V.V. Plyusnin, Ph. Lotte, J.-Y. Pascal*: Development and use of Cherenkov-type detectors for measurements of fast electrons in tokamaks. International Conference and School on Plasma Physics and Controlled Fusion - Alushta-2012, 17.09.2012, Alushta (Crimea), Ukraine