

7 Contribution to conferences and workshops

- [1] *D. Alegre, H. Bergsåker, I. Bykov, W. Figacz, P. Gqsior, M. Kubkowska, E. Kowalska-Strzęciwilk, P. Petersson, F.L. Tabare*: Study of correlation of deuterium contents in a-C:D dust induced by laser irradiation from co-deposited surface with the grain size and velocity.
International Conference on Research and Applications of Plasmas (PLASMA 2013)
02-06.09.2013, Warsaw, Poland
- [2] *J. Badziak, T. Chodukowski, Z. Kalinowska, P. Parys, T. Pisarczyk, P. Rączka, M. Rosiński, L. Ryć, J. Wołowski, A. Zaráś, L.A. Gizzi, F. Baffigi, G. Cristoforetti, P. Koester, L. Labate, L. Antonelli, M. Richetta, D. Batani, G. Folpini, G. Malka, Y. Maheut, E. Krousky, M. Pfeifer, O. Renner, M. Smid, J. Skala, J. Ullschmied, M. Kucharik, R. Liska, Y. J. Rhee, F. Consoli, R. De Angelis, C. Spindloe*: The influence of preformed plasma on a laser-driven shock produced in a planar target at the conditions relevant to Shock Ignition.
40th EPS Conference on Plasma Physics
01-05.07.2013, Helsinki, Finland
- [3] *J. Badziak, S. Jabłoński, P. Rączka, T. Pisarczyk*: Efficient laser-driven generation of ultra-intense ion beams for fast ignition in the LICPA accelerator.
Laser Energy Workshop, 2013 Optics & Optoelectronics SPIE Conference
15-18.04.2013, Prague, Czech Republic
- [4] *B. Bieg, Yu.A. Kravtsov, J. Chrzanowski, F. Orsitto*: Main physical factors limiting the accuracy of polarimetric measurements in tokamak plasma.
3rd International Conference Frontiers in Diagnostic Technologies for plasmas
25-27.11.2013 Frascati, Italy
- [5] *B. Bieg, Yu.A. Kravtsov, J. Chrzanowski, F. Orsitto*: Quasi-isotropic approximation of geometrical optic method as a theoretical basis for tokamak plasma polarimetry and interferometry.
3rd International Conference Frontiers in Diagnostic Technologies for plasmas
25-27.11.2013 Frascati, Italy
- [6] *B. Bieg, Yu.A. Kravtsov, J. Chrzanowski, F. Orsitto*: Joint evolution of angular parameters of polarization ellipse in tokamak plasma polarimetry.
International Conference on Fusion Reactor Diagnostics
09-13.09.2013, Varenna, Italy
- [7] *B. Bieńkowska, R. Prokopowicz, M. Scholz*: Neutron counter based on beryllium activation.
International Conference on Fusion Reactor Diagnostics
09-13.09.2013, Varenna, Italy
- [8] *M. Chernyshova, T. Czarski, W. Dominik, K. Jakubowska, J. Rządiewicz, M. Scholz, K. Poźniak, G. Kasprócz, W. Zabołotny*: Development of GEM gas detectors for X-ray crystal spectrometry.
3rd International Conference on Micropattern Pattern Gaseous Detectors
01-06.07.2013, Zaragoza, Spain.
- [9] *J. Chrzanowski, B. Bieg, Yu.A. Kravtsov*: Angular variables technique in tokamak plasma polarimetry.
International Conference on Research and Applications of Plasmas (PLASMA 2013)
02-06.09.2013, Warsaw, Poland
- [10] *J. Cieślak, S.M. Dubiel*: Influence of internal strain on alpha-sigma transformation.
MAT-IREMEV Monitoring Meeting: Radiation Effects Modelling and Experimental Validation,
26.06.2013, Bucharest, Romania

- [11] *J. Cieślak, S.M. Dubiel*: Effect of plastic deformation on the sigma-phase formation in Fe₅₄Cr₄₆. International Conference on the applications of the Mössbauer effect (ICAME2013) 01.09.2013, Opatija, Croatia
- [12] *T. Craciunescu, M. Curuia, M. Gherendi, S. Jednoróg, V.G. Kiptily, M. Paduch, R. Prokopowicz, M. Scholz, S. Soare, V. Zoita*: Neutron attenuator prototype tests on the PF1000 plasma focus neutron generator. 16th International Conference on Plasma Physics and Applications 20-25.06.2013, Magurele, Bucharest, Romania.
- [13] *A. Czarnecka, P. Gąsior, E. Kowalska-Strzęciwilk, M. Kubkowska*: Application of LIBS for Detection of Food Contamination with Heavy-Metal Elements (Pb, W, Ni). The seventh Euro-Mediterranean Symposium on Laser Induced Breakdown Spectroscopy 15-20.09.2013, Bari, Italy
- [14] *T. Czarski, M. Chernyshova, W. Dominik, K. Jakubowska, G. Kasprowicz, K. Poźniak, J. Rządkiwicz, M. Scholz, W. Zabołotny*: Fundamental data processing for GEM detector measurement system applied for X-ray diagnostics of fusion plasmas 40th European Physical Society Conference on Plasma Physics 01-05.07.2013, Helsinki, Finland
- [15] *J. Dankowski, A. Kurowski, J. Stockel, F. Janky*: Preliminary measurements of neutrons from the D-D reaction in the Compass tokamak. International Conference on Fusion Reactor Diagnostics 09–13.09.2013, Varenna, Italy
- [16] *K. Drozdowicz, J. Dankowski, B. Gabańska, A. Igielski, W. Janik, A. Kurowski*: 14 MeV neutron generator as a source of various charged particles produced in fusion reaction. International Conference on Research and Applications of Plasmas (PLASMA 2013) 02-06.09.2013, Warsaw, Poland
- [17] *S.M. Dubiel, J. Cieślak, H. Reuther*: On the effect of He⁺ irradiation on Fe–Cr alloys. Workshop on particle-surface interactions: from surface analysis to materials processing 03.06.2013, Luxemburg City, Luxemburg
- [18] *S.M. Dubiel, J. Cieślak, H. Reuther*: Effect of 25 keV He ions irradiation on magnetism of Fe-Cr alloys. Fifth Seeheim Conference on Magnetism 29.09.2013, Frankfurt a/M, Germany
- [19] *S.M. Dubiel, J. Cieślak*: Effect of quenching medium on short-range order in Fe-Cr alloys. MAT-IREMEV Monitoring Meeting: Radiation Effects Modelling and Experimental Validation, 26.06.2013, Bucharest, Romania
- [20] *S.M. Dubiel, J. Żukrowski*: Miscibility gap in Fe-Cr alloy system. International Conference on the applications of the Mössbauer effect (ICAME 2013) 01.09.2013, Opatija, Croatia
- [21] *U. Fischer, K. Drozdowicz, D. Dworak, G. Tracz et al.*: Neutronic Analyses and Tools Development Efforts in the European DEMO Programme. International Symposium on Fusion Nuclear Technology (ISFNT) 16-20.09.2013, Barcelona, Spain
- [22] *E. Fortuna-Zaleśna, J. Grzonka, M. Rasiński, M. Balden, V. Rohde, K.J. Kurzydłowski*: ASDEX Upgrade Team: Characterization of dust collected after plasma operation of all tungsten ASDEX Upgrade. 14th International Conference on Plasma-Facing Materials and Components for Fusion Applications 13-17.05.2013, Forschungszentrum Juelich, Germany

- [23] *M. Gajewski, M. Scholz, K. Drozdowicz, A. Igielski, W. Janik*: Miniature scintillation detector system for detection of the PF fast neutrons.
International Conference on Research and Applications of Plasmas (PLASMA 2013)
02-06.09.2013, Warsaw, Poland
- [24] *P. Gqsior*: Comparison of high and low-power density regimes of operation of laser-based methods for fuel removal and cleaning of plasma facing components.
International Conference on Research and Applications of Plasmas (PLASMA 2013)
02-06.09.2013, Warsaw, Poland
- [25] *I. Ivanova-Stanik, F. Koechl, I. Voitsekhovitch, A. Polevoi, G. Telesca, R. Zagórski and the EU-ITM ITER Scenario Modelling group*: Integrated core-SOL simulations of ITER H-mode scenario: effect of pedestal density on fusion performance and divertor loads.
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22-26.09.2013, Krakow, Poland
- [26] *I. Ivanova-Stanik, G. Telesca, R. Zagórski, C. Challis, J. Hobirk, C. Giroud, G. Maddison and JET EFDA contributors*: Integrated modelling of N seeding discharges for JET and ITER-like wall for H-mode and hybrid scenario.
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- [27] *I. Ivanova-Stanik, R. Zagórski, Y. Marandet, C. Bourdelle, J. Bucalossi, H. Bufferand, G. Ciraolo*: COREDIV modelling of WEST plasma scenarios
7th IAEA Technical Meeting on Steady State Operation of Magnetic Fusion devices.
13-17.05.2013, France, Aix en Provance
- [28] *S. Jabłoński*: Two-dimensional relativistic particle-in-cell code for simulation of laser-driven ion acceleration in various acceleration schemes.
International Conference on Research and Applications of Plasmas (PLASMA 2013)
02-06.09.2013, Warsaw, Poland
- [29] *K. Jakubowska, M. Kubkowska, A. Blagoev, M. Rosiński, P. Parys, P. Gqsior*: A spectroscopic study of laser ablation plasma from Mo target.
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- [30] *L. Jakubowski, V.V. Plyusnin, K. Malinowski, M.J. Sadowski, J. Żebrowski, M. Rabiński, H. Fernandes, C. Silva, P. Duarte*: New Data on Electron Beams and Hard X-ray Emission in the ISTTOK Tokamak.
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- [31] *L. Jakubowski, M.J. Sadowski, J. Żebrowski, K. Malinowski, M. Rabiński, M.J. Jakubowski, R. Mirowski*: Cherenkov-Type Diagnostics of Fast Electrons within Tokamak Plasmas.
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- [32] *E. Kowalska-Strzęciwilk, W. Skrzeczanowski, A. Czarnecka, M. Kubkowska, M. Paduch, E. Zielińska, M. Scholz*: Principal Component Analysis of soft X-ray signals generated by the PF 1000 facility in experiments with solid targets.
International Conference on Research and Applications of Plasmas (PLASMA 2013)
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- [33] *E. Kowalska-Strzęciwilk, D. Strzęciwilk, M. Kubkowska, W. Skrzeczanowski, W. Figacz*: Microstructural studies and surface analysis of laser irradiated in-situ Co-TiC composites.
International Symposium on Fusion Nuclear Technology
15-20.09.2013, Spain, Barcelona

- [34] *M. Kubkowska, E. Kowalska-Strzęciwilk, P. Gąsior, W. Skrzeczanowski, E. Fortuna-Zaleśna, J. Grzonka*: Study of laser-removal and structural changes of W:Al:C layer with deuterium content. International Symposium on Fusion Nuclear Technology 15-20.09.2013, Spain, Barcelona
- [35] *M. Kubkowska, E. Składnik-Sadowska, R. Kwiatkowski, K. Malinowski, E. Kowalska-Strzęciwilk, M. Paduch, M.J. Sadowski, T. Pisarczyk, T. Chodukowski, Z. Kalinowska, E. Zielińska, M. Scholz*: Investigation of interactions of intense plasma streams with tungsten and CFC targets in the PF-1000 facility. International Conference on Research and Applications of Plasmas (PLASMA 2013) 02-06.09.2013, Warsaw, Poland
- [36] *M. Lewandowska, Kamil Sedlak*: Thermal-hydraulic Analysis of Low Temperature Superconducting (LTS) Cables for the DEMO TF Coil. 23rd International Conference on Magnet Technology (MT-23), 14-19.07.2013, Boston, MA USA
- [37] *D. Mazon, D. Vezinet, P. Malard, J. Rządkiwicz, M. Scholz, J. Mlynar*: 3D Soft-X-ray measurements in WEST using GEM detectors. 40th European Physical Society Conference on Plasma Physics 01-05.07.2013, Espoo, Finland
- [38] *B. Obryk, P. Batistoni, S. Conroy, D.B. Syme, S. Popovichev, I.E. Stamatelatos, T. Vasilopoulou, P. Bilski and JET EFDA Contributors*: Thermoluminescence measurements of neutron streaming through JET Torus Hall ducts. 11th International Symposium on Fusion Nuclear Technology (ISFNT) 16-20.09.2013, Barcelona, Spain
- [39] *T. Pisarczyk, J. Badziak, A. Kasperczyk, Z. Kalinowska, T. Chodukowski, P. Parys, M. Rosiński, J. Wołowski, S.Y. Gus'kov, N.N. Demchenko, L. Antonelli, D. Batani, P. Koester, J. Ullschmied, and P. Pisarczyk*: Investigation of efficiency of laser radiation energy transport into the shock wave with the use of a planar target. Laser Energy Workshop, 2013 Optics & Optoelectronics SPIE Conference 15-18.04.2013, Prague, Czech Republic
- [40] *T. Pisarczyk, Z. Kalinowska, J. Badziak, A. Kasperczyk, S. Borodziuk, M. Rosiński, P. Parys, T. Chodukowski, S. Yu. Gus'kov, N.N. Demchenko, D. Batani, L. Antonelli, P. Koester, L. A. Gizzi, L. Labate, G. Cristoforetti, F. Baffigi, J. Ullschmied, E. Krousky, M. Pfeifer, O. Renner, M. Smid, J. Skala, and P. Pisarczyk*: Investigation of energy transfer from PALS iodine laser beam to shock wave generated in solid target relevant to shock ignition. 40th EPS Conference on Plasma Physics 01-05.07.2013, Helsinki, Finland
- [41] *L. Ryc, A. Barna, L. Calcagno, I.B. Földes, P. Parys, F. Riesz, M. Rosiński, S. Szatmári, L. Torrissi*: Measurement of ion emission from plasmas obtained with a 600-fs, 60-mJ KrF laser. International Conference on Research and Applications of Plasmas (PLASMA 2013) 02-06.09.2013, Warsaw, Poland
- [42] *M. Scholz, J. Dankowski, K. Drozdowicz, A. Igielski, A. Kurowski, U. Woźnicka, B. Bieńkowska, R. Prokopowicz*: Neutronic monitors and calibration. Int. Conf. on Fusion Reactor Diagnostics 09-13.09.2013, Varenna, Italy
- [43] *M. Scholz, K. Drozdowicz, L. Karpiński, V. Krauz, P. Kubes, M. Paduch, M. Sadowski, U. Woźnicka, K. Czaus, K. Malinowski, R. Kwiatkowski, E. Składnik-Sadowska and J. Żebrowski*: Status of Plasma-Focus Research in Poland.

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- [44] *K. Słabkowska, M. Polasik, E. Szymańska, J. Starosta, Ł. Syrocki, J. Rządiewicz, N.R. Pereira*: Modeling of the x-ray spectrum structure for tungsten ions in high temperature tokamak plasmas. International Conference on Research and Applications of Plasmas (PLASMA 2013)
- [45] *K. Słabkowska, E. Szymańska, M. Polasik, J. Starosta, J. Rządiewicz, M. Kubkowska, A. Czarnecka, N.R. Pereira, M. Scholz*: Diagnostics of plasma parameters based on the x-ray line shapes and positions. International Conference on Research and Applications of Plasmas (PLASMA 2013)
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- [46] *K. Słabkowska*: Diagnostics of plasma parameters based on the structures of the L x-ray lines of heavy elements. International Conference on Research and Applications of Plasmas (PLASMA 2013)
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- [47] *I.E. Stamatelatos, T. Vasilopoulou, B. Obryk, P. Bilski, S. Conroy, S. Popovichev, D.B. Syme, P. Batistoni and EFDA JET contributors*: Neutron streaming calculations along JET hall entrance maze. The Hellenic Nuclear Physics Society Annual Symposium
31.05.–01.06.2013, Athens, Greece
- [48] *R. Stankiewicz, R. Zagórski, G. Giruzzi, W. Stępniewski*: Limit on reduction of the power load to the target plates for DEMO reactor. Plasma Edge Theory in Fusion Devices
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- [49] *K. Szewczak, S. Jednoróg*: Delay effects of the interactions between neutrons emitted during plasmas experiments performed on the PF-1000 facility and construction materials. International Conference on Research and Applications of Plasmas (PLASMA 2013)
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- [50] *D. Twaróg*: Field-reversed configuration induced by a paramagnetic field. International Conference on Research and Applications of Plasmas (PLASMA 2013)
02-06.09.2013, Warsaw, Poland
- [51] *U. Wiącek, J. Dankowski, K. Drozdowicz, B. Gabańska, A. Igielski, A. Kurowski, T. Nowak, Y. Zabala*: Diamond detectors for spectrometric measurements at higher temperatures and in mixed radiation field. International Conference on Diamond and carbon Materials
02-05.09.2013, Riva del Garda, Italy
- [52] *R. Zagórski, V. Pericoli Ridolfini, G. Artaserse, G. Calabrò, F. Crisanti, G. Maddaluno, G. Pełka, G. Ramogida and B. Viola*: TECXY code simulation of the snowflake divertor configuration in DEMO reactor. Plasma Edge Theory in Fusion Devices
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