

## 7 Contribution to conferences and workshops

P. Berczyński and Yu.A. Kravtsov, *Gaussian beam diffraction in nonlinear media of Kerr type.*, X International Workshop Nonlinear Optics Applications. NOA 2009, Zakopane, Poland, 23-26.09.2009

P. Berczyński, Yu.A. Kravtsov, G. Żegliński, *Gaussian beam diffraction in inhomogeneous media of cylindrical symmetry*, Pierwsza Polska Konferencja Optyczna (PKO 2009), Bedlewo, Poland, 27.06-01.07.2009

B. Bieg, A. Boboc, *Influence of refraction on accuracy of JET polarimetry and interferometry diagnostics*, Foresight for Fusion Energy and Eighth Kudowa Summer School "Towards Fusion Energy", Kudowa Zdrój, Poland, 21-25.09.2009

S. Borodziuk, A. Kasperczuk, T. Pisarczyk, T. Chodukowski, J. Ullschmied, E. Krousky, K. Masek, M. Pfeifer, K. Rohlena, J. Skala, and P. Pisarczyk, *Indirect two-step method of acceleration, applied to metallic foils of different thickness*, 36th EPS Conference on Plasma Phys., Sofia, Bulgaria, 28.06-03.07.2009

A. Czarnecka et al., *Determination of Ni Impurity Density on JET by VUV Emission Spectroscopy*, 36th EPS Conference on Plasma Physics, Sofia, Bulgaria, 29.06-03.07.2009

A. Czarnecka et al., *Overview of Recent Results on Heating and Current Drive in the JET tokamak*, The 18th Topical Conference on Radio Frequency Power in Plasmas, Gent, Belgium, 22-24.06.2009

A. Czarnecka et al., *Recent ICRH results in JET*, 10th Brazilian Workshop on Plasma Physics, Maresias, Brazil, 22-26.11.2009

A. Czarnecka, S. Jabłoński, M. Kubkowska, L. Ryć, A. Weller, J. Wołowski, *Computer simulations of soft X-ray emission from tokamak plasma*, COST MP0601 WG&MC Meetings, Salamanca, Spain, 14-15.05.2009

J. Dańkowski, K. Drozdowicz, B. Gabańska, B. Marczevska, T. Nowak, U. Woźnicka, *Diament jako detektor cząstek alfa w ekstremalnych warunkach syntezy termojądrowej w tokamakach JET i ITER*, 40th Meeting of Polish Physicists, September, Kraków, Poland, 06-11.09.2009

I. Duran, M. Oszwałdowski, K. Kovařík, J. Jankowski, S. El-Ahmar, L. Viererbl and Z. Lahodová. *Investigation of Impact of Neutron Irradiation on Properties of InSb-based Hall Plates*, 14th International Conference on Fusion Reactor Materials, September 6-11, 2009, Sapporo, Japan. poster P2-166 <http://www.icfrm-14.com/index.html>, 2009P. Gąsior, M. Kubkowska, J. Wołowski, *Development of LIBS diagnostics at IPPLM*, KoM of the TA TGS-01-04, Frascati, Itali, 20.03.2009

P. Gąsior, M. Kubkowska, J. Wołowski, *Characterisation of film break-up during laser cleaning of mixed material components*, SEWG MEETING ON FUEL REMOVAL, Culham, UK, 15-17.06.2009

P. Gąsior, M. Kubkowska, J. Wołowski, *Removal of deposits of mixed materials from calibrated samples (C:W:Al) by laser techniques*, SEWG MEETING ON FUEL REMOVAL, Culham, UK, 15-17.06.2009

P. Gašior, M. Kubkowska, J. Wołowski, *LIBS and TOF analysis of mixed layer AUG divertor samples*, Joint TFE-SEWG Material Migration and Material Mixing meeting, Culham, UK, 07-08.07.2009

L. Jakubowski, K. Malinowski, J. Żebrowski, V.V. Plyusnin, M.J. Sadowski, M. Rabiński, H. Fernandes, C. Silva, P. Duarte, M.J. Jakubowski, *Study of electron beams within ISTTOK tokamak by means of a multi-channel Cherenkov detector; their correlation with hard X-rays*, 1<sup>st</sup> International Conf. on Frontiers in Diagnostic Technologies, Frascati, Italy, 25-27.11.2009

L. Jakubowski, M.J. Sadowski, K. Malinowski, M. Rabiński, J. Żebrowski, M.J. Jakubowski, *Badania szybkich elektronów w układach typu tokamak przy wykorzystaniu efektu czerenkowa (In polish)*, XL Zjazd Fizyków Polskich, Kraków, Polska, 06-11.09.2009

L. Jakubowski, J. Żebrowski, V.V. Plyusnin, K. Malinowski, M.J. Sadowski, M. Rabiński, H. Fernandes, C. Silva, P. Duarte, *A detection method for direct measurements of fast electrons via Cherenkov effect in the ISTTOK tokamak*, 11<sup>th</sup> IAEA Technical Meeting on “Energetic Particles in Magnetic Confinement Systems”, Kiev, Ukraine, 21-23.09.2009

S. Jednoróg, M. Scholz, S. Popovichev, A. Murari and JET EFDA contributors, *Numerical optimization of activation samples for the application of the activation technique to measure neutrons in large fusion devices like JET and ITER*, 36th EPS Conference on Plasma Physics, Sofia, Bulgaria, 29.06-03.07.2009

A. Kasperczuk, T. Pisarczyk, N.N. Demchenko, S.Yu. Gus'kov, M. Kalal, J. Ullschmied, E. Krousky, K. Masek, M. Pfeifer, K. Rohlena, J. Skala, and P. Pisarczyk, *Influence of target material on structure of partly defocused laser beam produced plasma outflow*, 36th EPS Conference on Plasma Phys., Sofia, Bulgaria, 28.06-03.07.2009

P. Kozikowski, A. Krawczyńska, M. Kulczyk, M. Lewandowska, K.J. Kurzydłowski, *Tayloring mechanical properties of nano-structured Eurofer 97 steel for fusion applications*, EMRS Fall Meeting, Warsaw, Poland, 13-18.09.2009

Yu.A. Kravtsov, B. Bieg, *Electromagnetic waves propagation in weakly anisotropic media: Theory and applications*, Pierwsza Polska Konferencja Optyczna (PKO 2009), Bedlewo, Poland, 27.06-01.07.2009

Yu.A. Kravtsov, M.D. Raev, E.I. Skvortsov, *Manifestations of the resonant (Bragg) and non-resonant mechanisms of scattering on radar images of the sea surface*, Internat. Radar Symposium'09, Hamburg, Germany, 09-11.09.2009

Yu.A. Kravtsov, B. Bieg, *Electromagnetic waves reflection from a target in magnetized plasma with application to plasma diagnostics*, Internat. Radar Symposium'09, Hamburg, Germany, 09-11.09.2009

Yu.A. Kravtsov, B. Bieg, *Microwave plasma polarimetry, using double passage regime*, Foresight for Fusion Energy and Eighth Kudowa Summer School “Towards Fusion Energy”, Kudowa Zdrój, Poland, 21-25.09.2009

Yu.A. Kravtsov, M.V. Tinin, K. Makles, *Tomography-like approach to the super Fresnel resolution of phase screen fine structure*, Foresight for Fusion Energy and Eighth Kudowa Summer School “Towards Fusion Energy”, Kudowa Zdrój, Poland, 21-25.09.2009

I. Książek, *Spektroskopia miękkiego promieniowania rentgenowskiego emitowanego z plazmy wysokotemperaturowej*, XL Zjazd Fizyków Polskich, Cracow, Poland, 06-11.09.2009

I. Książek, *Calibration of EUV/Soft X-ray spectrometers*, 8th Kudowa Summer School "Towards Fusion Energy", Kudowa, Poland, 21-25.09.2009

A. Kurowski, J. Dańkowski, *Diamond detectors for the high temperature plasma diagnostics*, Eighth Kudowa Summer School "Towards Fusion Energy", Kudowa-Zdrój, Poland, 21-25.09.2009

Z. Oksiuta, M. Lewandowska, K.J. Kurzydłowski, N. Baluc, *Reduced activation ODS steel - recent development in high speed hot extrusion*, EMRS Fall Meeting, Warsaw, Poland, 13-18.09.2009

M. Scholz, S. Jednoróg, A. Murari, S. Popovichev, R. Prokopowicz, A. Szydłowski and EFDA JET contributors, *Neutron measurements near JET vacuum vessel surface by multi-elements activation method*, 36th EPS Conference on Plasma Physics, Sofia, Bulgaria, 29.06-03.07.2009

M.V. Tinin, Yu.A. Kravtsov, A.V. Kulizhsky, *Method of Double Weighted Fourier Transform (DWFT) for reconstruction of fine scale plasma inhomogeneities*, Internat. Radar Symposium'09, Hamburg, Germany, 09-11.09.2009

U. Wiącek, K. Drozdowicz, V. Gribkov, R. Miklaszewski, B. Gabańska, *Monte Carlo modelling of fast neutron scattering by various compounds in view of elaboration of a single shot inspection system*, International Topical Meeting on Nuclear Research Applications and Utilization of Accelerators, Vienna, Austria, 04-08.05.2009

J. Wołowski, P. Gąsior, M. Kubkowska, *Laser detritiation and co-deposit removal for various plasma-facing components supported by optical spectroscopy and ion diagnostics (JW9-FT-3.55)*, Task Force Fusion Technology General Meeting, Culham, UK, 03-05.06.2009

J. Wołowski, P. Gąsior, M. Kubkowska, *Assessment of efficiency of laser removal of fuel-inventory for mixed material samples using LIBS (JW10-FT-3.58)*, Task Force Fusion Technology General Meeting, Culham, UK, 03-05.06.2009

J. Wołowski, P. Gąsior, M. Kubkowska, *Development of various diagnostic methods for dust characterisation (JW8-FT-2.31)*, Task Force Fusion Technology Semi-Annual Monitoring Meeting and Kick-off, Culham, UK, 01-04.12.2009

J. Wołowski, P. Gąsior, M. Kubkowska, *Laser detritiation and co-deposit removal for various plasma-facing components supported by optical spectroscopy and ion diagnostics (JW9-FT-3.55)*, Task Force Fusion Technology Semi-Annual Monitoring Meeting and Kick-off, Culham, UK, 01-04.12.2009

J. Wołowski, M. Kubkowska, P. Gąsior, M. Rosiński, *WPI.1 - DEM system: to perform a review of possible laser-based techniques which could be employed together with a detailed feasibility study for the possible integration on ITER*, Review Meeting on Emerging Technologies – Dust and Tritium Management, Garching, Germany, 16.11.2009

J. Wołowski, M. Kubkowska, P. Gąsior, M. Rosiński, *WPI.3 - To review the spectroscopy diagnostics foreseen on ITER to check their adequacy for erosion measurements*, Review Meeting on Emerging Technologies – Dust and Tritium Management, Garching, Germany, 16.11.2009

J. Wołowski, M. Kubkowska, P. Gąsior, M. Rosiński, *Plans for development of the DEM system*, DTM Kick-off meeting, Garching, Germany, 02.07.2009

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J. Wołowski, M. Kubkowska, P. Gąsior, M. Rosiński, *Review of spectroscopic diagnostics foreseen for ITER in a point of view of erosion measurements - plans.*, DTM Kick-off meeting, Garching, Germany, 02.07.2009