

# 10 Publications

- [1] *B. Bieg, M. Hirsch, and Yu.A. Kravtsov*: Numerical modeling of polarization effects in a plasma at the W7-X stellarator. *Zeszyty Naukowe Akademii Morskiej w Szczecinie*, (2011) **26**(98): 5–9
- [2] *S. Chaurasia, S. Tripathi, L. Ryć, and L.J. Dhareshwar*: Influence of laser focal position on X-ray and ion emission of copper plasma. *Nuclear Instruments and Methods in Physics Research A* (2011) **638**, 1:110-115
- [3] *Ł. Ciupiński, G. Krzesiński, P. Marek, T. Zagrajek, J. Fellingner, V. Bykov, A. Dudek, F. Schauer, and A. Panin*: Limit analysis of W7-X critical magnet system components with consideration of material serration effect. *Fusion Engineering and Design* (2011) **86**, 6-8:1501-1505
- [4] *A. Czarnecka, K.-D. Zastrow, J. Rządkiwicz, I.H. Coffey, K.D. Lawson, M.G. O'Mullane, and JET-EFDA Contributors*: Determination of metal impurity density,  $\Delta Z_{\text{eff}}$  and dilution on JET by VUV emission spectroscopy. *Plasma Physics and Controlled Fusion* (2011) **53**, 35009:1-16
- [5] *K. Drozdowicz, J. Dankowski, B. Gabańska, A. Igielski, A. Kurowski, B. Marczewska, T. Nowak, I. Wodniak, and U. Woźnicka*: Usability of diamond detector for spectrometric measurements of lost alpha particles. *Diamond&Related Materials* (2011) **20**:743-745
- [6] *V.A. Gribkov, C. Tuniz, E.V. Demina, A.V. Dubrovsky, V.N. Pimenov, Maslyaev, R. Gaffka, M. Gryaznevich, E. Składnik-Sadowska, M.J. Sadowski, R. Miklaszewski, M. Paduch, and M. Scholz*: Experimental studies of radiation resistance of boron nitride, C2C ceramics Al<sub>2</sub>O<sub>3</sub> and carbon-fiber composites using a PF-1000 plasma-focus device. *Physica Scripta* (2011) **83**, 045606:1-12
- [7] *E. Havlíčková, W. Fundamenski, V. Naulin, A.H. Nielsen, R. Zagórski, J. Seidl, and J. Horáček*: Steady-state and time-dependent modelling of parallel transport in the scrape-off layer. *Plasma Physics and Controlled Fusion* (2011) **53**, 065004:1-24
- [8] *M.J. Sadowski*: Generation and diagnostics of fast electrons within tokamak plasmas. *Nukleonika* (2011) **56**(2):85-98
- [9] *P. Jacquet, L. Colas, M.-L. Mayoral, G. Arnoux, V. Bobkov, M. Brix, P. Coad, A. Czarnecka, D. Dodt, F. Durodie, A. Ekedahl, D. Frigione, M. Fursdon, E. Gauthier, M. Goniche, M. Graham, E. Joffrin, A. Korotkov, E. Lerche, J. Mailloux, I. Monakhov, C. Noble, J. Ongena, V. Petržilka, C. Portafaix, F. Rimini, A. Sirinelli, V. Riccardo, Z. Vizvary, A. Widdowson, K.-D. Zastrow, and JET EFDA Contributors*: Heat loads on JET plasma facing components from ICRF and LH wave absorption in the SOL. *Nuclear Fusion* (2011) **51**, 103018:1-16
- [10] *K. Jakubowska, M. Kubkowska, E. Składnik-Sadowska, K. Malinowski, A.K. Marchenko, M. Paduch, M.J. Sadowski, and M. Scholz*: Optical emission spectroscopy of plasma streams in PF-1000 experiments. *Nukleonika* (2011) **56**, 2:125-129

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- [12] *L. Jakubowski, V.V. Plyusnin, M.J. Sadowski, J. Żebrowski, K. Malinowski, M. Rabiński, H. Fernandes, C. Silva, P. Duarte, and M. Jakubowski*: ISTTOK runaway electrons energies estimation by Cherenkov-type probe with modified Al<sub>K</sub> radiators. *Nukleonika* (2011):4
- [13] *J. Jankowski, S. El-Ahmar, and M. Oszwałdowski*: Hall Sensors for Extreme Temperatures. *Sensors* (2011) **11**(1):876-885
- [14] *D. Klir, J. Kravarik, P. Kubes, K. Rezac, E. Litseva, K. Tomaszewski, L. Karpiński, M. Paduch, and M. Scholz*: Fusion neutron detector for time-of-flight measurements in z-pinch and plasma focus experiments. *Review of Scientific Instruments* (2011) **82**, 33505:1-7
- [15] *D. Klir, P. Kubes, M. Paduch, T. Pisarczyk, T. Chodukowski, M. Scholz, Z. Kalinowska, E. Zielińska, B. Bieńkowska, J. Hitschfel, S. Jednorog, L. Karpiński, J. Kortanek, J. Kravarik, K. Rezac, I. Ivanova-Stanik, and K. Tomaszewski*: Experimental evidence of thermonuclear neutrons in a modified plasma focus. *Applied Physics Letters* (2011) **98**, 071501:1-3
- [16] *Yu.A. Kravtsov, and B. Bieg*: Localized plasma polarimetry based on the phenomenon of normal mode conversion. *Nukleonika* (2011) **56**(2):171-174
- [17] *Yu.A. Kravtsov, J. Chrzanowski, and D. Mazon*: Algorithm for polarimetry data inversion, consistent with other measuring techniques in tokamak plasma. *Eur. Phys. J. D* (2011) **63**(1):135-139
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- [19] *Yu.A. Kravtsov, and J. Chrzanowski*: Accuracy of Cotton-Mouton polarimetry in sheared toroidal plasma of circular cross-section. *Cent. Eur. J. Phys.* (2011) **9**(1):123-130
- [20] *Yu.A. Kravtsov, and J. Chrzanowski*: Modulation and suppression of weak Cotton-Mouton effect by Faraday rotation. *Eur. Phys. J. D* (2011) **63**(1):129-133
- [21] *Yu.A. Kravtsov, and J. Chrzanowski*: Modulation of weak Cotton-Mouton effect in conditions of strong Faraday rotation. *Zeszyty Naukowe Akademii Morskiej w Szczecinie* (2011), **26**(98):47-51
- [22] *Yu.A. Kravtsov, and J. Chrzanowski*: Possible accuracy of the Cotton-Mouton polarimetry in a sheared toroidal plasma. *Nukleonika* (2011) **56**(2):175-177
- [23] *P. Kubes, M. Paduch, T. Pisarczyk, M. Scholz, T. Chodukowski, D. Klir, J. Kravarik, K. Rezac, I. Ivanova-Stanik, L. Karpiński, M. J. Sadowski, K. Tomaszewski, and E. Zielińska*: Spontaneous Transformation in the Pinched Column of the Plasma Focus. *IEEE Transactions on Plasma Science* (2011) **39**, 1:562-568
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- [26] *M. Lewandowska and M. Bagnasco*: Thermo-hydraulic analysis of the cool-down of the EDIPO test facility. *Cryogenics* (2011) **51**, 9:485-493

- [27] *M. Lewandowska and R. Herzog*: Transverse heat transfer coefficient in the dual channel ITER TF CICC. Part I: Analysis of steady state temperature profiles resulting from annular heating. *Cryogenics* (2011) **51**, 10:598-608
- [28] *S.M. Dubiel and J. Cieślak*: Short-Range Order in Fe-Rich Fe-Cr Alloys as Revealed by Mössbauer Spectroscopy. *Phys. Rev. B* (2011) **83**, 180202(R)
- [29] *M. Polasik, K. Słabkowska, J. Rzakiewicz, K. Koziół, J. Starosta, E. Wiatrowska-Koziół, J.-Cl. Dousse, and J. Hoszowska*: K $\alpha$ <sub>1,2</sub> X-Ray hypersatellite line broadening as a signature of K-Shell double photoionization followed by outer-shell ionization and excitation. *Physical Review Letters* (2011) **107**, 073001:1-5
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- [32] *M. Rabiński, L. Jakubowski, K. Malinowski, R. Mirowski, M.J. Sadowski, and J. Żebrowski*: Progress in development and applications of Cherenkov-type detectors for fast electron studies in tokamaks. *Problems of Atomic Science and Technology* (2011) **1(17)**:164-166
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