



1. M. Owsiak, M. Plociennik et al. Running simultaneous Kepler sessions for the parallelization of parametric scans and optimization studies applied to complex workflows, *Journal of Computational Science*
2. M. Owsiak, M. Plociennik et al Best Practices in Debugging Kepler Workflows, *Procedia Computer Science*, Volume 80, 2016,
3. M. Owsiak, M. Plociennik, Running Simultaneous Kepler Sessions for the Parallelization of Parametric Scans and Optimization Studies Applied to Complex Workflows, *Procedia Computer Science*,
4. G. Pełka, P. Chmielewski, R. Zagórski, V. Pericoli-Ridolfini and B. Viola, TECXY Study of a Liquid Lithium Divertor for DEMO, *Contrib. Plasma Phys.*, 56, No. 6-8, 802-807 (2016)
5. A. Wójcik-Gargula: Activation of real ITER materials - report on deliverables F17, SAR report, December 2016.
6. I. Zychor, G. Bołtruczyk, A. Burakowska, M. Gierlik, M. Gosk, M. Grodzicka, J. Iwanowska, S. Korolczuk, R. Kwiatkowski, S. Mianowski, M. Moszyński, J. Rządkiwicz, P. Sibczyński, A. Syntfeld-Każuch, Ł. Świdorski, M. Szawłowski, T. Szczęśniak, J. Szewiński, A. Szydłowski, A. Urban, et al., High performance detectors for upgraded gamma ray diagnostics for JET DT campaigns, *Physica Scripta* 91 (2016) 064003.
7. S. Korolczuk, S. Mianowski, J. Rządkiwicz, P. Sibczyński, Ł. Świdorski, I. Zychor, Digital Approach To High Count Rate Gamma-Ray Spectrometry, *IEEE Trans. Nucl. Sci.* 63 (2016) 1668.
8. S. Korolczuk, M. Linczuk, R. Romaniuk, I. Zychor, Development of a digital method for neutron/gamma-ray discrimination based on matched filtering, *Journal of Instrumentation* 11 (2016) C09013.
9. M. Nocente, D. Rigamonti, V. Perseo, M. Tardocchi, G. Bołtruczyk, A. Broslawski, A. Cremona, G. Groci, M. Gosk, V. Kiptily, S. Korolczuk, M. Mazzocco, A. Muraro, E. Strano, I. Zychor, G. Gorini, and JET Contributors, Gamma-ray spectroscopy at MHz counting rates with a compact LaBr<sub>3</sub> detector and silicon photomultipliers for fusion plasma applications, *Review of Scientific Instruments* 87 (2016) 11E714.
10. D. Rigamonti, A. Muraro, M. Nocente, V. Perseo, G. Bołtruczyk, A. Fernandes, J. Figueiredo, L. Giacomelli, G. Gorini, M. Gosk, V. Kiptily, S. Korolczuk, S. Mianowski, A. Murari, R. C. Pereira, E. P. Cippo, I. Zychor, M. Tardocchi, Performance of the prototype LaBr<sub>3</sub> spectrometer developed for the JET Gamma-ray Camera Upgrade, *Review of Scientific Instruments* 87 (2016) 11E717.
11. K. Gałązka, I. Ivanova-Stanik, W. Stępniewski, R. Zagórski, R. Neu, M. Romanelli and T Nakano, "Numerical analyses of JT-60SA tokamak with tungsten divertor by COREDIV code", *Plasma Phys Contr F*, 2017, 59(4), 045011
12. R. Zagórski, G. Giruzzi, K. Gałązka, I. Ivanova-Stanik, M. Romanelli and W. Stępniewski, "Numerical analyses of JT-60SA scenarios with the COREDIV code", 2016, *Nucl Fusion*, 56(1), 016018
13. E. Lerche et. al., Optimization of ICRH for core impurity control in JET-ILW *Nucl. Fusion* 56 (2016) 036022
14. K. Gałązka, et al. Impurity seeding in ASDEX Upgrade tokamak modeled by COREDIV code, 15th Plasma Edge Theory in Fusion Devices workshop in Nara, Japan 9-11.09. 2015 *Contributions to Plasma Physics* 56 (2016), 772
15. M. Krychowiak, et al. Overview of diagnostic performance and results for the first operation phase in Wendelstein 7-X, *Review of Scientific Instruments* 87, 11D304 (2016)
16. N. Krawczyk et al. "Comparison of Silicon Drift Detectors made by Amptek and PNDetector in application to the PHA system for W7-X", *Nukleonika*, 2016;61(4):409-412

# Publications and Conference Presentations



17. T. Sunn Pedersen et al. Confirmation of the topology of the Wendelstein 7-X magnetic field to better than 1:100,000, *Nature Communications* 7, Article number: 13493 (2016)
18. A. Wojenski et al., Concept and current status of data acquisition technique for GEM detector based SXR diagnostics, *Fusion Science and Technology* 69(3) (2016) 595.
19. A. Wojenski et al., FPGA-based GEM detector signal acquisition for SXR spectroscopy system, *JINST* 11 (2016) C11035.
20. T. Czarski et al., Algorithms development for the GEM-based detection system, *Proc. SPIE* 10031 (2016) 100313Z.
21. A. Wojenski et al., Automatization of hardware configuration for plasma diagnostic system, *Proc. SPIE*. 10031 (2016) 100313K.
22. P. Kolasinski et al., Modeling of serial data acquisition structure for GEM detector system in Matlab, *Proc. SPIE* 10031 (2016) 100313L.
23. R. Krawczyk et al., The development of algorithms for the deployment of new version of GEM-detector-based acquisition system, *Proc. SPIE* 10031 (2016) 100313J.
24. M. Chernyshova et al., GEM detectors development for radiation environment: neutron tests and simulations, *Proc. SPIE* 10031 (2016) 100313X.
25. P. Linczuk et al., Algorithm for fast event parameters estimation on GEM acquired data, *Proc. SPIE* 10031 (2016) 100313M.
26. E. Kowalska-Strzeciwiłk, M. Chernyshova, Technological aspects of GEM detector design and assembling for soft x-ray application, *Proc. SPIE* 10031 (2016) 100313Y.
27. T. Czarski et al., The cluster charge identification in the GEM detector for fusion plasma imaging by soft X-ray diagnostics, *Rev. Sci. Instrum.* 87 (2016) 11E336.
28. R. Krawczyk et al., The speedup analysis in GEM detector based acquisition system algorithms with CPU and PCIE cards, *Acta Physica Polonica B Proceedings Supplement Vol. 9* (2016) 257.
29. D. Mazon et al., GEM detectors for WEST and potential application for heavy impurity transport studies, *JINST* 11 (2016) C08006.
30. A. Jardin et al., Tomographic capabilities of the new GEM based SXR diagnostic of WEST, *JINST* 11 (2016) C07006.
31. M. Chernyshova et al., Gaseous electron multiplier-based soft x-ray plasma diagnostics development: Preliminary tests at ASDEX Upgrade, *Rev. Sci. Instrum.* 87 (2016) 11E325.
32. K. Szewczak, S Jednoróg (2016) Radiation hazards in PF-1000 plasma generator fusion research (part 3), *J Radioanal Nucl Chem*, DOI 10.1007/s10967-016-4700, DOI 10.1007/s10967-016-4700-1
33. M. Chernyshova; S. Jednoróg; K. Malinowski; T. Czarski; A. Ziółkowski; B. Bieńkowska; R. Prokopowicz; E. Łaszyńska; E. Kowalska-Strzeciwiłk; K. T. Poźniak; G. Kasprowicz; W. Zabołotny; A. Wojeński; RD. Krawczyk; P. Linczuk; P. Potrykus; M. Bajdel, GEM detectors development for radiation environment: neutron tests and simulations, *Proc. SPIE* 10031, *Photonics Applications in Astronomy, Communications, Industry, and High-Energy Physics Experiments 2016*, 100313X (September 28, 2016); doi:10.1117/12.2249490
34. S.Jednoróg (2016) O zastosowaniu spektrometrii gamma w fizyce plazmy. Wczoraj i dziś promieniowania. (cz.1) *Przegląd Techniczny-Gazeta Inżynierska*, 18 (2016) pp 18-19 S.Jednoróg (2016) O zastosowaniu spektrometrii gamma w fizyce plazmy. Wczoraj i dziś promieniowania. (cz.2) *Przegląd Techniczny-Gazeta Inżynierska*, 19-20 (2016) pp 19-22
35. S.Jednoróg (2016) Zastosowanie spektrometrii gamma w fizyce plazmy. Wieloparametryczne funkcje rejestracji fotonów – aspekt teoretyczny (cz.1) 22-23 pp 26-28



36. S.Jednoróg (2016) Zastosowanie spektrometrii gamma w fizyce plazmy. Wieloparametryczne funkcje rejestracji fotonów – aspekt teoretyczny (cz.2) 19-21
37. S.Jednoróg (2017) Zastosowanie spektrometrii gamma w fizyce plazmy. Wieloparametryczne funkcje rejestracji fotonów - zastosowanie praktyczne (cz.1) 29-31
38. Łaszyńska E, Jednoróg S (2016) spektrometria aktywacyjna dla potrzeb drugiej kampanii deuterowo-trytowej na tokamaku JET, PTJ VOL. 59 Z. 4 2016 pp 21-29
39. Jednorog S, Laszynska E, Bienkowska B, Ziolkowski A, Paduch M, Szewczak K, Mikszuta K, Malinowski K, Bajdel M, Potrykus P (2017) A new concept of fusion neutron monitoring for PF-1000 device, Nukleonika, 2017 62(1), DOI 10.1515/nuka-2017-0000 (praca ukazała się w grudniu 2016)
40. L.W. Packer, P. Batistoni, B. Colling, K. Drozdowicz, S. Jednorog, M.R. Gilbert, E. Laszynska, D. Leichtle, J.W. Mietelski, M. Pillon, L.E. Stamatelatos, T. Vasilopoulou, A. Wójcik-Gargula and JET Contributors, Status of ITER material activation experiments at JET, Fusion Engineering and Design (2017), <http://dx.doi.org/10.1016/j.fusengdes.2017.01.037>
41. R. Zagórski, K.Gałazka and I. Ivanova-Stanik, Divertor Power Spreading in DEMO Reactor by Impurity Seeding, Fusion Engineering and Design 109–111 (2016) 37–41
42. Ivanova-Stanik et al. „COREDIV and SOLPS numerical simulations of the nitrogen seeded JET ILW L-mode discharges”, Contrib. Plasma Phys. 56, No. 6-8, 760 – 765 (2016) / DOI 10.1002/ctpp.201610006
43. Lewandowska M., Sedlak K.: Thermal-hydraulic analysis of the improved LTS conductordesign concepts for the DEMO TF coil, Przegląd Elektrotechniczny 92 (2016) 179-182 (publikacja wyników badań przeprowadzonych w 2013 r. w ramach zadania EFDA).
44. Lewandowska M., Sedlak K., Zani L.: Thermal-Hydraulic Analysis of the Low-Tc Superconductor (LTS) Winding Pack Design Concepts for the DEMO Toroidal Field (TF) Coil. IEEE Transactions on Applied Superconductivity 26 (2016) nr artykułu 4205305 (5 stron).
45. Vallcorba R., Lacroix B., Ciazynski D., Torre A., Nunio F., Zani L. Le Coz Q., Lewandowska M., Coleman M.: Thermo-hydraulic analyses associated with a CEA design proposal for a DEMO TF conductor. Cryogenics 80 (2016) 317-324.
46. L. Zani, C. Bayer, M. Biancolini, R. Bonifetto, P. Bruzzone, C. Brutti, D. Ciazynski, M. Coleman, I. Duran, M. Eisterer, W. Fietz, P. Gade, E. Gaio, W. Goldacker, F. Gomor, X. Granados, R. Heller, P. Hertout, C. Hoa, A. Kario, B. Lacroix, M. Lewandowska, A. Maistrello, A. Nijhuis, F. Nunio, A. Panin, T. Petrisor, J.-M. Poncet, R. Prokopec, M.S. Cardona, S. Schlachter, K. Sedlak, B. Stepanov, I. Tiseanu, A. Torre, S. Turtu, R. Vallcorba, M. Wojenciak, K.-P. Weiss, R. Wesche, K. Yagotintsev, R Zanino.: “Overview of progress on the EU DEMO magnet system design”, IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY, VOL. 26, NO. 4, JUNE 2016, 4204505 (6 stron).
47. Ł. Syrocki, E. Szymańska, K. Słabkowska, M. Polasik, G. Pestka, „Modeling of the soft X-ray tungsten spectra expected to be registered by GEM detection system for WEST”, Nukleonika 61, 433-436 (2016);
48. Ł. Syrocki, K. Słabkowska, E. Węder, J. Starosta-Sztuczka, M. Polasik, „Modeling of soft N, M and L x-ray lines from tungsten relevant to plasma parameters in the WEST tokamak”, Nucl. Instr. Meth. Phys. Res. B (2017), in review;
49. K. Słabkowska, Ł. Syrocki, E. Węder, M. Polasik, „The individual M x-ray line contributions originating from Cu- and Co-like tungsten for various plasma temperature”, Nucl. Instr. Meth. Phys. Res. B (2017), in review.