

Curriculum vitae – RNDr. Jana Brotánková, Ph.D.

Family name: Brotánková
Given name: Jana
Academic degree: RNDr., Mgr., Ph.D.



RESEARCH INTERESTS:

- Plasma Physics
- Fusion devices (tokamak, stellarator, reversed field pinch)
- Plasma turbulence
- Probe diagnostics
- Thomson scattering diagnostics
- Development of new diagnostics tools
- Magnetic topology, magnetic islands
- Educational programmes
- Conservation planning, environmental modelling

EDUCATION:

- 1997 graduated at Grammar School in Česká Lípa
- 2003 graduated at Charles University, Prague, Czech Republic, subject: physics (master degree Mgr.)
- 2009: graduated at Charles University, Prague, Czech Republic, subject: plasma physics (doctoral degree Ph.D.)
- 2009: doctoral degree at Charles University, Prague, Czech Republic, subject: plasma physics (RNDr.)

DUTIES PERFORMED:

- 1998 - 2010 Institute of Plasma Physics, Academy of Sciences of the Czech Republic - research
- 2004 - 2006 Faculty of Nuclear Sciences and Physical Engineering, Czech Technical University, Prague - teacher of physics
- 2010 – 2012 Institute for Plasma Research, India – research
- 2012 Australian National University, Canberra, Australia – research
- 2013 Czech University of Life Sciences Prague – teacher of physics and research
- 2013 Faculty of Nuclear Sciences and Physical Engineering, Czech Technical University in Prague – research
- 2013 – to date: ARC Centre of Excellence for Coral Reef Studies, James Cook University – research (analyst)

WORK EXPERIENCE:

- March, April 2000 (5.5 weeks): tokamak TEXTOR-94, IPP, Forschungszentrum Jülich, Germany
- April 2000 (1 week): FOM Institute of Plasma Physics Rijnhuizen, Netherlands
- September 2003: 5th Carolus Magnus Summer School on Plasma and Fusion Energy Physics, Bruxelles, Belgium
- May, June 2005 (6 weeks): reversal field pinch RFX-mod, Consorzio RFX, Padova, Italy
- November, December 2006 (5 weeks): stellarator TJ-II, CIEMAT, Madrid, Spain.
- March 2007 (1 week): FOM Inst. of Pl. Phys. Rijnhuizen, Netherlands.
- October 2007 (2 weeks): reversal field pinch RFX-mod, Consorzio RFX, Padova, Italy
- November, December 2009 (6 weeks): reversal field pinch RFX-mod, Consorzio RFX, Padova, Italy
- January – December 2012: Australian Endeavour Award holder: Australian National University, the H-1 heliac

OTHER ACTIVITIES:

- Scientific secretary of the
 - 8th workshop on the Electric Fields, Structures, and Relaxation in Edge Plasmas (Tarragona, Spain, 2005)
 - 9th workshop on the Electric Fields, Structures, and Relaxation in Edge Plasmas (Roma, Italy, 2006)
 - 10th workshop on the Electric Fields, Structures, and Relaxation in Plasmas (Warsaw, Poland, 2007)
- Supervising at the IPP Prague (2 students)
- 2005-2009: Lecturer on Summer Training Course of plasma physics at the IPP Prague
- 2007-2008: Leader of the Thomson Scattering Group (development of Thomson Scattering diagnostics for the COMPASS tokamak)
- 2011: Supervisor on the Summer School Programme 2011 at the IPR Gandhinagar
- 2012: Production of the GOMTRAIC – GOLEM Training course: a remote plasma physics course oriented on experimental tokamak physics and control
- 2013: Production of the GOMTRAIC – GOLEM Training course: a remote plasma physics course oriented on experimental tokamak physics and control
- Participation in students organizations:
 - 2001 – to date: Spolek Matfyzak – organization of the Faculty of Mathematics and Physics of the Charles University
 - 2004-2010: Leader of Spolek Matfyzak
 - 2008 – to date: Studentska Unie UK – organization unifying all students organizations of the Charles University
 - 2008-2009: Inaugural leader of Studentska Unie UK

LIST OF PUBLICATIONS

Citations for 2006-2013:

- Sum of the Times Cited: 103
- Sum of Times Cited without self-citations: 91
- Citing Articles: 78
- Citing Articles without self-citations: 69

Source: WoS, March 2013

Theses:

- **Diploma thesis:** Diagnostics of high-temperature plasma by Thomson Scattering Diagnostics, defended in 2003.
- **PhD thesis:** Study of hot-temperature plasma in tokamak-like devices (mainly study of edge plasma turbulence by systems of Langmuir probes), defended in 2009.

Publications in scientific journals:

1. **J. Brotankova**, V. Weinzettl, H-alpha line measurements and Te profile estimation, *Czechoslovak Journal of Physics*, Vol. **50** (2000), *Suppl. S3*.
2. **J. Brotankova**, K. Jakubka, L. Kryška, J. Stockel, F. Zacek, Measurement of energy confinement in CASTOR tokamak regimes with edge plasma polarisation, *Czechoslovak Journal of Physics*. Vol. **50** (2000), *Suppl. S3*.
3. **J. Brotankova**, P. Plisek, F. Zacek, Measurement of electron temperature and density by Thomson Scattering diagnostic on the Tokamak CASTOR, *Czechoslovak Journal of Physics*. Vol. **52** (2002), *Suppl. D*.
4. M. Spolaore, E. Martines, **J. Brotankova**, J. Stockel, J. Adamek, E. Dufkova, I. Duran, M. Hron, V. Weinzettl, P. Peleman, , G. Van Oost, P. Devynck, H. Figueiredo, G. Kirnev, Relaxation phenomena during edge plasma biasing in the CASTOR tokamak, *Czechoslovak Journal of Physics*, Vol. **55**, No.12, p. 1597-1606, 2005.
5. R. Schrittwieser, J. Adamek, C. Ionita, J. Stockel, **J. Brotankova**, E. Martines, G. Popa, C. Costin, L. Van de Peppel, G. Van Oost, Direct measurements of the plasma potential by katsumata-type probes, *Czechoslovak Journal of Physics*, *Suppl. B.*, Vol. **56**, p. 145-150, 2006.
6. **J. Brotankova**, E. Martines, J. Adamek, J. Stockel, G. Popa, C. Costin, R. Schrittwieser, C. Ionita, G. Van Oost, A probe-based method for measuring the transport coefficient in the tokamak edge region, *Czechoslovak Journal of Physics*, Vol. **56** (12), No.12, p. 1321-1327, 2006.
7. P. Devynck, **J. Brotankova**, P. Peleman, M. Spolaore, H. Figueiredo, M. Hron, G. Kirnev, E. Martines, J. Stöckel, G. Van Oost, V. Weinzettl, Dynamics of turbulent transport in the scrape-off layer of the CASTOR tokamak, *Physics and Plasmas*, **13** (10), 102505-102513, 2006.
8. J. Stockel, M. Spolaore, **J. Brotankova**, J. Horacek, R. Dejarnac, P. Devynck, I. Duran, J.P. Gunn, M. Hron, M. Kocan, E. Martines, R. Panek, P. Peleman, A. Sharma, G. Van Oost: Dynamics of the edge transport barrier at plasma biasing on

the CASTOR tokamak, journal *Voprosy Atomnoj Nauki I Tekhniki: (Problems of Atomic Science and Technology: Plasma Physics)*, 2006, No.6, 19-23.

9. G. Van Oost, V.V. Bulanin, A.J.H. Donne, E.Z. Gusakov, A. Kraemer-Flecken, L.I. Krupnik, A. Melnikov, S. Nanobashvili, P. Peleman, K.A. Razumova, J. Stockel, V. Vershkov, J. Adamek, A.B. Altukov, V.F. Andreev, L.G. Askinazi, I.S. Bondarenko, **J. Brotankova**, A.Yu. Dnestrovskij, I. Duran, L.G. Eliseev, L.A. Esipov, S.A. Grashin, A.D. Gurchenko, G.M.D. Hogeweij, M. Hron, C. Ionita, S. Jachmich, S.M. Khrebtov, D.V. Kouprienko, S.E. Lysenko, E. Martines, S.V. Perfilov, A.V. Petrov, A.Yu. Popov, D. Reiser, R. Schrittwieser, S. Soldatov, M. Spolaore, A.Yu. Stepanov, G. Telesca, A.O. Urazbaev, G. Verdoolaege, F. Zacek, O. Zimmermann, Multi-machine studies of the role of turbulence and electric fields in the establishment of improved confinement in tokamak plasmas, *PLASMA PHYSICS AND CONTROLLED FUSION* **49** (5A): A29-A44, 2007.
10. G. Van Oost, M. Berta, **J. Brotankova**, R. Dejarnac, E. Del Bosco, E. Dufkova, I. Duran, M. P. Gryaznevich, M. Hron, A. Malaquias, G. Mank, P. Peleman, J. Sentkerestiova, J. Stockel, V. Weinzettl, S. Zoletnik, J. Ferrera, A. Fonseca, H. Hegazy, Y. Kuznetsov, A. Ossyannikov, A. Sing, M. Sokholov, A. Talebitaher, Joint experiments on small tokamaks: edge plasma studies on CASTOR, *NUCLEAR FUSION* **47** (5): p. 378-386 MAY 2007.
11. J. Stockel, J. Adamek, P. Balan, O. Bilyk, **J. Brotankova**, R. Dejarnac, P. Devynck, I. Duran, J.P. Gunn, M. Hron, J. Horacek, C. Ionita, M. Kocan, E. Martines, R. Panek, P. Peleman, R. Schrittwieser, G. Van Oost, F. Zacek, Advanced probes for edge plasma diagnostics on the CASTOR tokamak, *Journal of Physics: Conference Series* **63** (2007) 012001.
12. P. Peleman, Y. Xu, M. Spolaore, **J. Brotankova**, P. Devynck, J. Stockel, G. Van Oost, C. Boucher, Highly resolved measurements of periodic radial electric field and associated relaxations in edge biasing experiments, *Journal of Nuclear Materials*. 363-365, Vol. **17** (2007), p. 638-642.
13. R. Dejarnac, J.P. Gunn, J. Stockel, J. Adamek, **J. Brotankova**, C. Ionita, Study of ion sheath expansion and anisotropy of the electron parallel energy distribution in the CASTOR tokamak, *Plasma Physics and Controlled Fusion* **49** No.10 (2007) p. 1791-1808.
14. **J. Brotankova**, E. Martines, J. Adamek, J. Stockel, G. Popa, C. Costin, R. Schrittwieser, C. Ionita, G. Van Oost, Novel technique for direct measurement of the plasma diffusion coefficient in magnetised plasma, *Contributions to Plasma Physics* **48**, No. 5-7, p. 418-423 (2008).
15. J. Adamek, M. Kocan, R. Panek, J. P.Gunn, E. Martines, J. Stockel, C. Ionita, G. Popa, C. Costin, **J. Brotankova**, R. Schrittwieser, G. Van Oost, Simultaneous Measurements of Ion Temperature by Katsumata and Segmented Tunnel Probe, *Contributions to Plasma Physics* **48**, No. 5-7, p. 395-399 (2008).
16. J. Adamek, J. Stockel, **J. Brotankova**, J. Horacek, V. Rohde, H.W. Müller, A. Herrmann, R. Schrittwieser, F. Mehlmann, C. Ionita, Direct measurements of the plasma potential in ELMy H-mode plasma with ball-pen probes on ASDEX Upgrade tokamak, *Journal of Nuclear Materials*, 390-391, p. 1114-1117, (2009).
17. P. Martin, L. Apolloni, M.E. Puiatti, J. Adamek, M. Agostini, A. Alfieri, S.V. Annibaldi, V. Antoni, F. Auriemma, O. Barana, M. Baruzzo, P. Bettini,

- T. Bolzonella, D. Bonfiglio, F. Bonomo, M. Brombin, **J. Brotankova**, A. Buffa, P. Buratti, A. Canton, S. Cappello, L. Carraro, R. Cavazzana, M. Cavinato, B.E. Chapman, G. Chitarin, S. Dal Bello, A. De Lorenzi, G. De Masi, D.F. Escande, A. Fassina, A. Ferro, P. Franz, E. Gaio, E. Gazza, L. Giudicotti, F. Gnesotto, M. Gobbin, L. Grando, L. Guazzotto, S.C. Guo, V. Igochine, P. Innocente, Y.Q. Liu, R. Lorenzini, A. Luchetta, G. Manduchi, G. Marchiori, D. Marcuzzi, L. Marrelli, S. Martini, E. Martines, K. McCollam, S. Menmuir, F. Milani, M. Moresco, L. Novello, S. Ortolani, R. Paccagnella, R. Pasqualotto, S. Peruzzo, R. Piovan, P. Piovesan, L. Piron, A. Pizzimenti, N. Pomaro, I. Predebon, J.A. Reusch, G. Rostagni, G. Rubinacci, J.S. Sarff, F. Sattin, P. Scarin, G. Serianni, P. Sonato, E. Spada, A. Soppelsa, S. Spagnolo, M. Spolaore, G. Spizzo, C. Taliercio, D. Terranova, V. Toigo, M. Valisa, N. Vianello, F. Villone, R.B. White, D. Yadikin, P. Zaccaria, A. Zamengo, P. Zanca, B. Zaniol, L. Zanotto, E. Zilli, H. Zohm and M. Zuin: Overview of RFX-mod results, *NUCLEAR FUSION* **49** (2009) 104019.
18. J. Adamek, V. Rohde, H.W. Muller, A. Herrmann, C. Ionita, R. Schrittwieser, F. Mehlmann, J. Stockel, J. Horacek, **J. Brotankova**, Direct measurements of the plasma potential in ELMy H-mode plasma with ball-pen probes on ASDEX Upgrade tokamak, *Journal of Nuclear Materials*, Vol. 390-391 (2009) 1114-1117.
 19. **J. Brotankova**, J. Adamek, E. Martines, J. Stockel, M. Spolaore, R. Cavazzana, G. Serianni, N. Vianello, M. Zuin, Measurements of plasma potential and electron temperature by ball-pen probes in RFX-mod, *Problems of atomic science and technology*, No 1., Series: Plasma Physics (15), p. 16-18 (2009).
 20. **J. Brotankova**, J. Stockel, J. Horacek, J. Seidl, I. Duran, M. Hron, G. Van Oost, Measurement of Sheared Flows in the Edge Plasma of the CASTOR Tokamak, *Plasma Physics Reports*, Vol. **35**, No. 11, pp. 980–986 (2009).
 21. **J. Brotankova**, J. Stockel, J. Horacek, J. Seidl, I. Duran, M. Hron, G. Van Oost, ИЗМЕРЕНИЕ ШИРА СКОРОСТИ НА КРАЮ ПЛАЗМЫ ТОКАМАКА CASTOR (Measurement of Sheared Flows in the Edge Plasma of the CASTOR Tokamak), Published in Russian in *Fizika Plazmy*, Vol. **35**, No. 11, pp. 1059–1065 (2009).
 22. M. Gryaznevich, G. Van Oost, P. Peleman, **J. Brotankova**, R. Dejarnac, E. Dufkova, I. Duran, Martin Hron, Jana Sentkerestiova, J. Stockel, V. Weinzettl, J. Zajac, L.A. Berni, E. Del Bosco, J.G. Ferreira, F.J.R. Simoes, M. Berta, D. Dunai, B. Tal, S. Zoletnik, A. Malaquias, G. Mank, H. Figueiredo, Y. Kuznetsov, L. Ruchko, H. Hegazy, A. Ovsyannikov, E. Sukhov, G.M. Vorobjev, N. Dreval, A. Singh, V. Budaev, G. Kirnev, N. Kirneva, B. Kuteev, A. Melnikov, D. Nurov, M. Sokolov, V. Vershkov, A. Talebitaher, P. Khorshid, R. Gonzales, I. El Chama Neto, A.W. Kraemer-Flecken, V. Soldatov, B. Brotas, P. Carvalho, R. Coelho, A. Duarte, H. Fernandes, J. Figueiredo, A. Fonseca, R. Gomes, I. Nedzelski, A. Neto, G. Ramos, J. Santos, C. Silva, D. Valcarcel, C.R. Gutierrez Tapia, L.I. Krupnik, L. Petrov, M. Kolokoltsov, J. Herrera, M. Nieto-Perez, A. Czarnecka, P. Balan, A. Sharnin, V. Pavlo, Results of Joint Experiments and other IAEA activities on research using small tokamaks, *Nuclear Fusion*, Vol. **49**, 1-7 (2009).
 23. P. Martin, J. Adamek, P. Agostinetti, M. Agostini, A. Alfier, C. Angioni, V. Antoni, L. Apolloni, F. Auriemma, O. Barana, S. Barison, M. Baruzzo, P. Bettini, M. Boldrin, T. Bolzonella, D. Bonfiglio, F. Bonomo, AH Boozer, M. Brombin, **J. Brotankova**, A. Buffa, A. Canton, S. Cappello, L. Carraro, R. Cavazzana, M. Cavinato, L. Chacon, G. Chitarin, WA Cooper, S. Dal Bello, M. Dalla Palma, R Delogu, A. De Lorenzi,

G De Masi, JQ Dong, M. Drevlak, DF Escande, F. Fantini, A. Fassina, F. Fellin, A. Ferro, S. Fiameni, A. Fiorentin, P. Franz, E. Gaio, X. Garbet, E. Gazza, L. Giudicotti, F. Gnesotto, M. Gobbin, L. Grando, SC Guo, Y. Hirano, SP Hirshman, S. Ide, V. Igochine, Y. In, P. Innocente, S. Kiyama, SF Liu, YQ Liu, DL Bruna, R. Lorenzini, A. Luchetta, G. Manduchi, DK Mansfield, G. Marchiori, D. Marcuzzi, L. Marrelli, S. Martini, G. Matsunaga, E. Martines, G. Mazzitelli, K. McCollam, S. Menmuir, F. Milani, B. Momo, M. Moresco, S. Munaretto, L. Novello, M. Okabayashi, S. Ortolani, R. Paccagnella, R. Pasqualotto, M. Pavei, GV Perverezev, S. Peruzzo, P. Piovan, P. Piovesan, L. Piron, A. Pizzimenti, N. Pomaro, N. Pomphrey, I. Predebon, ME Puiatti, V. Rigato, A. Rizzolo, G. Rostagni, G. Rubinacci, A. Ruzzon, H. Sakakita, R. Sanchez, JS Sarff, F. Sattin, A. Scaggion, P. Scarin, W. Schneider, G. Serianni, P. Sonato, E. Spada, A. Soppelsa, S. Spagnolo, M. Spolaore, DA Spong, G. Spizzo, M. Takechi, C. Taliercio, D. Terranova, V. Toigo, M. Valisa, M. Veranda, N. Vianello, F. Villone, Z. Wang, RB White, D. Yadikin, P. Zaccaria, A. Zamengo, P. Zanca, B. Zaniol, L. Zanotto, E. Zilli, G. Zollino, M. Zuin, Overview of the RFX fusion science program, *NUCLEAR FUSION*, Vol. **51**, Issue: 9, Special Issue: SI, Number: 094023, DOI: 10.1088/0029-5515/51/9/094023 (2011).

24. V. Weinzettl, R. Panek, M. Hron, J. Stockel, F. Zacek, J. Havlicek, P. Bilkova, D. Naydenkova, P. Hacek, J. Zajac, R. Dejarnac, J. Horacek, J. Adamek, J. Mlynar, F. Janky, M. Aftanas, P. Bohm, **J. Brotankova**, D. Sestak, I. Duran, R. Melich, D. Jares, B. Anda, G. Vereses, A. Szappanos, S. Zoletnik, M. Berta, V.F. Shevchenko, R. Scannell, D. Walsh, H.W. Müller, V. Igochine, A. Silva, M. Manso, R. Gomes, Tsv. Popov, D. Sarychev, V.K. Kiselov, S. Nanobashvili, J. Ghosh, Overview of the COMPASS diagnostics, *Fusion Engineering and Design*, Vol. **86**, 6-8 (2011).
25. D. Sangwan, R. Jha, **J. Brotankova**, M. V. Gopalkrishna, Plasma flows in scrape-off layer of Aditya tokamak, *Physics of Plasmas*, Vol. **19**, Issue 9, 092507, (2012).
26. D. Sangwan, R. Jha, **J. Brotankova**, M. V. Gopalkrishna, Modification of Plasma Flows with Gas Puff in the Scrape-off Layer of ADITYA Tokamak , *Physics of Plasmas*, Vol. **20**, 062503(2013).
27. D. Sangwan, R. Jha, **J. Brotankova**, M. V. Gopalkrishna, Transport Driven Plasma Flows in the Scrape-off Layer of ADITYA Tokamak in Positive and Negative Helicities, (Submitted to *Physics of Plasmas* in 2013).

Publications in conference proceedings:

1. **J. Brotankova**, P. Plisek, F. Zacek, Thomson scattering diagnostic on the tokamak CASTOR, in *WDS'01 Proceedings of Contributed Papers: Part II - Physics of Plasmas and Ionized Media*, ed. by J. Šafránková, Prague, Matfyzpress, 289-293, (2001).
2. **J. Brotankova**, P. Plisek, F. Zacek, Measurement of electron temperature and density by Thomson Scattering diagnostic on the Tokamak CASTOR, *Czech. J. Phys. Suppl. D*, **52**, D51-D58, (2002).
3. **J. Brotankova**, P. Plisek, F. Zacek, Development of Thomson scattering diagnostic for measurement of electron temperature and density on the tokamak CASTOR, in *WDS'02 Proceedings of Contributed Papers: Part II - Physics of Plasmas and Ionized Media*, ed. by J. Šafránková, Prague, Matfyzpress, 313-318, (2002).

4. J. Stockel, P. Devynck, J. Gunn, E. Martines, G. Bonhomme, G. Van Oost, M. Hron, J. Adamek, **J. Brotankova**, R. Dejarnac, I. Duran, T. Gorler, T. Hansen, R. Panek, P. Stejskal, V. Svoboda, F. Zacek, Formation of convective cells in the scrape-off layer of the CASTOR tokamak, *12th ICPP*, Nice (France), (2004).
5. **J. Brotankova**, J. Stockel, E. Martines, G. Van Oost, V. Svoboda, T. Gorler, T. Hansen, Fluctuation measurements with 2D matrix of Langmuir probes on the CASTOR tokamak, *32nd EPS Plasma Physics Conference, EPC, 29C*, P5.018 (4 pages), Tarragona, Spain (2005).
6. M. Spolaore, **J. Brotankova**, P. Peleman, P. Devynck, H. Figueiredo, G. Kirnev, E. Martines, J. Stockel, G. Van Oost, J. Adamek, E. Dufkova, I. Duran, M. Hron, V. Weinzettl, Relaxation phenomena during edge plasma biasing in the CASTOR tokamak, *32th EPS Plasma Physics Conference, EPC, 29C*, P4.031 (4 pages), Tarragona, Spain (2005).
7. **J. Brotankova**, E. Martines, J. Adamek, G. Popa, C. Costin, R. Schrittwieser, C. Ionita, J. Stockel, G. Van Oost, L. van de Peppel, A new probe-based method for measuring the diffusion coefficient in the tokamak edge region, *33rd EPS Plasma Physics Conference, EPC, 30I*, P2.195 (4 pages), Roma, Italy (2006).
8. R. Schrittwieser, J. Adamek, C. Ionita, J. Stockel, E. Martines, **J. Brotankova**, G. Popa, C. Costin, G. Van Oost, L. van de Peppel, Direct Measurements of the Plasma Potential by Katsumata-type Probes, *33rd EPS Plasma Physics Conference, EPC, 30I*, P4.196 (4 pages), Roma, Italy (2006).
9. M. Hron, P. Peleman, M. Spolaore, R. Dejarnac, O. Bilykova, **J. Brotankova**, J. Sentkerestiova, I. Duran, L. van de Peppel, J. Gunn, J. Stockel, G. Van Oost, J. Horacek, J. Adamek, M. Stepan, Detailed measurements of momentum balance during the periodic collapse of a transport barrier, *33rd EPS Plasma Physics Conference, EPC, 30I*, P4.076 (4 pages), Roma, Italy (2006).
10. **J. Brotankova**, M. Spolaore, J. Stockel, P. Peleman, M. Hron, Stepan, Deep analysis of relaxation events in the CASTOR tokamak using deeply immersed biasing electrode, *WDS'06 Proceedings of Contributed Papers: Part II - Physics of Plasmas and Ionized Media*, Prague, Matfyzpress, p. 127-132, 2006.
11. J. Stockel, **J. Brotankova**, M. Hron, J. Adamek, I. Duran, G. Van Oost, P. Peleman, J. Gunn, P. Devynck, E. Martines, R. Schrittwieser, M. Kocan, Edge plasma diagnostics in tokamaks, *Proceedings of the Sixth International workshop and school „Towards Fusion Energy – Plasma Physics, Diagnostics, Spin-offs“*, Kudowa Zdroj, p. 910-935, 2006.
12. **J. Brotankova**, P. Belsky, R. Barth, H. van der Meiden, V. Weinzettl, P. Bohm, M. Aftanas, New High Resolution Thomson Scattering system for the COMPASS tokamak, *WDS'07 Proceedings of Contributed Papers: Part II - Physics of Plasmas and Ionized Media*, Matfyzpress, p. 218-223, 2007.
13. M. Aftanas, P. Belsky, P. Bohm, V. Weinzettl, **J. Brotankova**, R. Barth, H. van der Meiden, Exploitation of Avalanche Photodiodes for Thomson Scattering Diagnostics in Tokamaks, *WDS'07 Proceedings of Contributed Papers: Part II - Physics of Plasmas and Ionized Media*, Matfyzpress, p. 224–228, 2007.
14. **J. Brotankova**, R.O. Orozco, M.A. Pedrosa, C. Hidalgo, E. Sanchez, J. Stockel, Study of the statistical properties of fluctuations in the plasma boundary region of the

TJ-II stellarator, *Proceedings of 34th EPS Conference on Plasma Physics (Plasma Physics Reports)*, P1.086 (4 pages), Warsaw, Poland, 2007.

15. J. Stockel, J. Adamek, **J. Brotankova**, R. Dejarnac, P. Devynck, I. Duran, J. Gunn, J. Horacek, M. Hron, M. Kocan, E. Martines, P. Peleman, R. Panek, M. Spolaore, G. Van Oost, Survey of results on plasma biasing in the CASTOR tokamak, *Proceedings of 34th EPS Conference on Plasma Physics (Plasma Physics Reports)*, P2-031-P2-031, Warsaw, Poland, 2007.
16. **J. Brotankova**, P. Belsky, R. Barth, H. van der Meiden, V. Weinzettl, P. Bohm, M. Aftanas, Development of New High Resolution Thomson Scattering system for the COMPASS tokamak, *NIFS-PROC-68*, p. 130-133, 2007.
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