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## Studium v doktorském studijním programu

### PUBLIKAČNÍ LIST

Jméno: Ing. Ondřej Ficker

### Publikace se vztahem k tématu disertační práce/Publications related to the PhD thesis topic:

Publikace v impaktovaných časopisech s afiliací FJFI, Publications in impacted journals with FNSPE affiliation:

Jako hlavní autor/As main author:

1. O. **Ficker**, J. Mlynar, M. Vlainic, J. Cerovsky, J. Urban, P. Vondracek, V. Weinzettl, E. Macusova, J. Decker, M. Gospodarczyk, P. Martin, E. Nardon, G. Papp, V. V. Plyusnin, C. Reux, F. Saint-Laurent, C. Sommariva, J. Cavalier, J. Havlicek, A. Havranek, O. Hronova, M. Imrisek, T. Markovic, J. Varju, R. Paprok, R. Panek, M. H. and, “Losses of runaway electrons in MHD-active plasmas of the COMPASS tokamak,” en, *Nuclear Fusion*, vol. 57, no. 7, May 2017
2. O. **Ficker**, E. Macusova, J. Mlynar, D. Bren, A. Casolari, J. Cerovsky, M. Farnik, O. Grover, J. Havlicek, A. Havranek, M. Hron, M. Imrisek, M. Jerab, J. Krbec, P. Kulhanek, V. Linhart, M. Marcisovsky, T. Markovic, D. Naydenkova, R. Panek, M. Sos, P. Svihra, V. Svoboda, M. Tomes, J. Urban, J. Varju, M. Vlainic, P. Vondracek, V. Vrba, V. Weinzettl, D. Carnevale, J. Decker, M. Gobbin, M. Gospodarczyk, G. Papp, Y. Peysson, V. Plyusnin, M. Rabinski, C. Reux, “Runaway electron beam stability and decay in COMPASS,” *Nuclear Fusion*, vol. 59, no. 9, 2019

Jako spoluautor/As co-author:

3. J. Mlynar, O. **Ficker**, E. Macusova, T. Markovic, D. Naydenkova, G. Papp, J. Urban, M. Vlainic, P. Vondracek, V. Weinzettl, O. Bogar, D. Bren, D. Carnevale, A. Casolari, J. Cerovsky, M. Farnik, M. Gobbin, M. Gospodarczyk, M. Hron, P. Kulhanek, J. Havlicek, A. Havranek, M. Imrisek, M. Jakubowski, N. Lamas, V. Linhart, K. Malinowski, M. Marcisovsky, E. Matveeva, R. Panek, V. Plyusnin, M. Rabinski, V. Svoboda, P. Svihra, J. Varju, J. Zebrowski, “Runaway electron experiments at COMPASS in support of the EUROfusion ITER physics research,” *Plasma Physics and Controlled Fusion*, vol. 61, no. 1, 2019
4. J. Cerovsky, O. **Ficker**, V. Svoboda, E. Macusova, J. Mlynar, J. Caloud, V. Weinzettl, M. Hron,

- “Progress in HXR diagnostics at GOLEM and COMPASS tokamaks,” en, *Journal of Instrumentation*, vol. 17, no. 01, Jan. 2022
5. J. Mlynar, T. Craciunescu, D. Ferreira, P. Carvalho, O. **Ficker**, O. Grover, M. Imrisek, J. Svoboda, c. JET, “Current Research into Applications of Tomography for Fusion Diagnostics,” *Journal of Fusion Energy*, vol. 38, no. 3-4, 2019
  6. M. Vlainić, J. Mlynář, V. Weinzettl, R. Papřok, M. Imříšek, O. **Ficker**, P. Vondráček, J. Havlíček, “First dedicated observations of runaway electrons in the COMPASS tokamak,” *Nukleonika*, vol. 60, no. 2, 2015
  7. M. Vlainic, J. Mlynar, J. Cavalier, V. Weinzettl, R. Paprok, M. Imrisek, O. **Ficker**, M. Varavin, P. Vondracek, J.-M. Noterdaeme, t. C. Team, “Post-disruptive runaway electron beams in the COMPASS tokamak,” en, *Journal of Plasma Physics*, vol. 81, no. 5, Oct. 2015
  8. M. Farník, J. Urban, J. Zajac, O. Bogár, M. Varavin, A. Casolari, J. Čerovský, O. **Ficker**, J. Mlynář, E. Macúšová, V. Weinzettl, M. Hron, “Radiometry for the vertical electron cyclotron emission from the runaway electrons at the COMPASS tokamak,” *Review of Scientific Instruments*, vol. 90, no. 11, Nov. 2019
  9. M. Hron, J. Adámek, J. Cavalier, R. Dejarnac, O. **Ficker**, O. Grover, J. Horáček, M. Komm, E. Macúšová, E. Matveeva, R. Pánek, M. Peterka, J. Seidl, D. Tskhakaya, V. Yanovskiy, F. J. Artola, S. Atikukke, P. Bartoň, A. Bencze, M. Berta, P. Bílková, W. Bin, K. Bogár, O. Bogár, P. Böhm, I. Borodkina, S. Brezinsek, F. Brochard, P. Buratti, J. Čaloud, A. Casolari, C. Castaldo, J. Čečrdle, J. Čerovský, D. Čipciar, A. Devitre, M. Dimitrova, I. Ďuran, S. Entler, M. Farník, H. Fernandes, D. Fridrich, Š. Fuková, E. Gauthier, J. Gerardin, M. Gobbin, G. Grenfell, Y. Gribov, M. Grof, J. Gunn, P. Háček, J. Havlíček, A. Havránek, C. Hidalgo, K. Hromasová, O. Hronova, M. Iafrati, M. Imříšek, N. Isernia, F. Jaulmes, M. Jeřáb, M. Jirsa, P. Junek, A. Kallenbach, O. Kovanda, K. Kovařík, J. Krbec, L. Kripner, L. Krlín, P. Kulhánek, M. Lehnen, N. Lemoine, X. Litaudon, Y. Q. Liu, N. C. Logan, T. Loarer, A. Loarte, P. Lourenco, S. Lukes, P. Mácha, M. Rabinski, A. M. Roldan, T. Markovič, J. Matějček, G. Mazzitelli, J. Mlynář, I. Mysiura, F. Napoli, D. Naydenkova, J.-K. Park, N. Patel, P. Pavlo, R. Pitts, A. Podolník, M. Poradzinski, J. Preinhaelter, A. Prishvitsin, D. Refy, R. Roccella, D. Šesták, O. Shyshkin, V. Škvára, M. Šos, M. Spolaore, J. Stöckel, J. Svoboda, M. Tomeš, A. Torres, P. Turjanica, G. Tynan, M. Valovič, G. V. Oost, M. Varavin, J. Varju, P. Veis, M. Vilemova, F. Villone, P. Vondráček, V. Weinzettl, F. Žáček, G. Zadvitkiy, J. Zajac, D. R. Zaloga, J. Zebrowski, S. Zoletnik, “Overview of the COMPASS results \*,” en, *Nuclear Fusion*, vol. 62, no. 4, May 2022
  10. V. Linhart, D. Bren, A. Casolari, J. Čerovský, M. Farník, O. **Ficker**, M. Hetflejš, M. Hron, J. Jakůbek, P. Kulhánek, E. Macúšová, M. Marčíšovský, J. Mlynář, P. Švihra, V. Svoboda, J. Urban, J. Varju, V. Vrba, “First Measurement of X-rays Generated by Runaway Electrons in Tokamaks Using a TimePix3 Device with 1 mm thick Silicon Sensor,” in *2018 IEEE Nuclear Science Symposium and Medical Imaging Conference Proceedings (NSS/MIC)*, Nov. 2018
  11. L. Novotny, J. Cerovsky, P. Dhyani, O. **Ficker**, M. Havranek, M. Hejtmanek, Z. Janoska, V. Kafka, S. Kulkov, M. Marcisovska, M. Marcisovsky, G. Neue, P. Svihra, V. Svoboda, L. Tomasek, M. Tunkl, V. Vrba, “Runaway electron diagnostics using silicon strip detector,” en, *Journal of Instrumentation*, vol. 15, no. 07, Jul. 2020
  12. S. Kulkov, M. Marcisovsky, P. Svihra, M. Tunkl, M. v. Beuzekom, J. Caloud, J. Cerovsky, O. **Ficker**, E. Macusova, J. Mlynar, V. Weinzettl, V. Svoboda, “Detection of runaway electrons at the COMPASS tokamak using a Timepix3-based semiconductor detector,” en, *Journal of Instrumentation*, vol. 17, no. 02, 2022
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J. Varju, V. Vrba, V. Weinzettl, “Runaway electrons diagnostics using segmented semiconductor detectors,” *Fusion Engineering and Design*, vol. 146, 2019

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**Publikace v impaktovaných časopisech bez afilice FJFI/Publications in impacted journals without FNSPE affiliation:**

15. C. Reux, C. Paz-Soldan, P. Aleynikov, V. Bandaru, O. **Ficker**, S. Silburn, M. Hoelzl, S. Jachmich, N. Eidietis, M. Lehnen, S. Sridhar, JET contributors, “Demonstration of Safe Termination of Megaampere Relativistic Electron Beams in Tokamaks,” *Physical Review Letters*, vol. 126, no. 17, Apr. 2021
16. C. Reux, C. Paz-Soldan, N. Eidietis, M. Lehnen, P. Aleynikov, S. Silburn, V. Bandaru, O. **Ficker**, M. Hoelzl, E. M. Hollmann, S. Jachmich, E. Joffrin, P. J. Lomas, F. Rimini, L. Baylor, A. Bleasdale, L. Calacci, F. Causa, D. Carnevale, I. Coffey, D. Craven, A. D. Molin, E. d. l. Luna, G. D. Tommasi, J. Garcia, T. Gebhart, L. Giacomelli, A. Huber, E. Khilkevich, C. Lowry, E. Macusova, A. Manzanares, M. Nocente, E. Panontin, G. Papp, G. Pautasso, A. Peacock, V. Plyusnin, A. Shevelev, D. Shiraki, C. Sommariva, C. Sozzi, S. Sridhar, R. Sweeney, G. Szepesi, R. A. Tinguely, J. Wilson, “Physics of runaway electrons with shattered pellet injection at JET,” en, *Plasma Physics and Controlled Fusion*, vol. 64, no. 3, 2022
17. V. Bandaru, M. Hoelzl, C. Reux, O. **Ficker**, S. A. Silburn, M. Lehnen, N. W. Eidietis, “Magnetohydrodynamic simulations of runaway electron beam termination in JET,” en, *Plasma Physics and Controlled Fusion*, 2021
18. M. Vlainic, O. **Ficker**, J. Mlynar, E. Macusova, “Experimental runaway electron current estimation in COMPASS tokamak,” *Atoms*, vol. 7, no. 1, 2019
19. C. Paz-Soldan, C. Reux, K. Aleynikova, P. Aleynikov, V. Bandaru, M. Beidler, N. Eidietis, Y. Q. Liu, C. Liu, A. Lvovskiy, S. Silburn, L. Bardoczi, L. Baylor, I. Bykov, D. Carnevale, D. D.-C. Negrete, X. Du, O. **Ficker**, S. Gerasimov, M. Hoelzl, E. Hollmann, S. Jachmich, S. Jardin, E. Joffrin, C. Lasnier, M. Lehnen, E. Macusova, A. Manzanares, G. Papp, G. Pautasso, Z. Popovic, F. Rimini, D. Shiraki, C. Sommariva, D. Spong, S. Sridhar, G. Szepesi, C. Zhao, t. D.-D. Team, J. E. T. Contributors, “A novel path to runaway electron mitigation via deuterium injection and current-driven MHD instability,” en, *Nuclear Fusion*, vol. 61, no. 11, Oct. 2021
20. J. Decker, G. Papp, S. Coda, B. P. Duval, U. Sheikh, P. Blanchard, D. Choi, C. Galperti, L. Calacci, D. Carnevale, O. **Ficker**, M. Gobbin, B. Labit, E. Macusova, J. Mlynar, V. Plyusnin, O. Sauter, t. T. Team, t. E. M. Team, “Full conversion from ohmic to runaway electron driven current via massive gas injection in the TCV tokamak,” en, *Nuclear Fusion*, vol. 62, no. 7, May 2022
21. U. A. Sheikh, P. David, O. **Ficker**, M. Bernert, D. Brida, M. Dibon, B. P. Duval, M. Faitsch, M. Maraschek, G. Papp, G. Pautasso, C. Sozzi, “Disruption mitigation efficiency and scaling with thermal energy fraction on ASDEX Upgrade,” en, *Nuclear Fusion*, vol. 60, 2020
22. P. Dhyani, V. Svoboda, V. Istokskaia, J. Mlynář, J. Čerovský, O. **Ficker**, V. Linhart, “Study of Runaway Electrons in GOLEM Tokamak,” *Journal of Instrumentation*, vol. 14, no. 9, 2019
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- Sassano, B. Tilia, O. Tudisco, D. Valcarcel, “Runaway electron beam control,” *Plasma Physics and Controlled Fusion*, vol. 61, no. 1, 2019
24. V. V. Plyusnin, C. Reux, V. G. Kiptily, G. Pautasso, J. Decker, G. Papp, A. Kallenbach, V. Weinzettl, J. Mlynar, S. Coda, V. Riccardo, P. Lomas, S. Jachmich, A. E. Shevelev, B. Alper, E. Khilkevitch, Y. Martin, R. Dux, C. Fuchs, B. Duval, M. Brix, G. Tardini, M. Maraschek, W. Treutterer, L. Giannone, A. Mlynek, O. **Ficker**, P. Martin, S. Gerasimov, S. Potzel, R. Paprok, P. J. McCarthy, M. Imrisek, A. Boboc, K. Lackner, A. Fernandes, J. Havlicek, L. Giacomelli, M. Vlainic, M. Nocente, U. Kruezi, C. team, TCV team, A.-U. team, E. M. Team, J. E. T. contributors, “Comparison of runaway electron generation parameters in small, medium-sized and large tokamaks—A survey of experiments in COMPASS, TCV, ASDEX-Upgrade and JET,” en, *Nuclear Fusion*, vol. 58, no. 1, 2018
  25. Y. Liu, C. Paz-Soldan, E. Macusova, T. Markovic, O. **Ficker**, P. B. Parks, C. C. Kim, L. L. Lao, L. Li, “Toroidal modeling of runaway electron loss due to 3-D fields in DIII-D and COMPASS,” *Physics of Plasmas*, vol. 27, no. 10, Oct. 2020
  26. M. Rabinski, L. Jakubowski, K. Malinowski, M. J. Sadowski, J. Zebrowski, M. J. Jakubowski, R. Mirowski, V. Weinzettl, O. **Ficker**, J. Mlynar, R. Panek, R. Paprok, M. Vlainic, “Development of a Cherenkov-type diagnostic system to study runaway electrons within the COMPASS tokamak,” en, *Journal of Instrumentation*, vol. 12, no. 10, 2017

**Příspěvky na konferencích, ve sbornících abstraktů/Publications at conferences, in proceedings:**

**Jako hlavní autor/As main author:**

27. O. Ficker, et al., “Long slide-away discharges in the COMPASS tokamak,” in *Bulletin of the American Physical Society*, vol. Volume 61, Number 18, American Physical Society, 2016; 58th Annual Meeting of the APS Division of Plasma Physics, San Jose, USA, 31/10-4/11/2016 [poster]
28. O. **Ficker**, J. Mlynar, E. Macusova, M. Vlainic, V. Weinzettl, J. Urban, J. Cerovsky, M. Farnik, T. Markovic, R. Paprok, P. Vondracek, M. Imrisek, M. Tomes, J. Havlicek, J. Varju, M. Varavin, O. Bogar, A. Havranek, M. Gospodarczyk, M. Rabinski, M. Jakubowski, K. Malinowski, J. Zebrowski, V. Plyusnin, G. Papp, R. Panek, M. Hron, “RE beam generation in MGI disruptions on COMPASS,” en, in *Europhysics Conference Proceedings*, EPS Mulhouse, France, Jun. 2017; 44th EPS Conference on Plasma Physics, Belfast, UK, 26 - 30 June 2017 [poster]
29. O. **Ficker**, M. Imrisek, J. Mlynar, E. Macusova, J. Svoboda, V. Weinzettl, J. Urban, A. Havranek, J. Cerovsky, M. Farnik, O. Grover, M. Hron, R. Panek, V. Plyusnin, M. Vlainic, “Analysis of MGI disruptions and runaway electron beams at COMPASS using tomography and fast camera data,” en, in *Europhysics Conference Proceedings*, EPS Mulhouse, France, Jul. 2018; 45th EPS Conference on Plasma Physics, Prague Czech Republic, 2-6 July 2018 [poster]
30. O. **Ficker**, E. Macusova, J. Cerovsky, L. Kripner, A. D. Molin, S. Silburn, C. Reux, M. Hoppe, C. Sommariva, E. Joffrin, G. Ghillardi, R. A. Tinguely, J. Mlynar, E. Panontin, M. Nocente, M. Tardocchi, S. Jachmich, C. Paz-Soldan, P. Vondracek, A. Casolari, M. Farnik, J. Caloud, V. Weinzettl, J. Cavalier, J. Havlicek, A. Havranek, M. Imrisek, J. Svoboda, M. Hron, “Analysis of RE beams in COMPASS and JET using betatron equilibrium and radiation diagnostics,” en, in *Europhysics Conference Proceedings*, EPS Mulhouse, France, Jun. 2021; 47th EPS Conference on Plasma Physics, Sitges, Spain (virtual), 21-25 June, 2021 [poster]

Dále ustní příspěvky na významných mezinárodních setkáních, například/Oral contributions and important international meetings such as:

Runaway electron modelling meeting, Theory and Simulation of Disruptions Workshop, atd.

**Jako spoluautor/As co-author:**

Dalších více než 10 příspěvků na velkých mezinárodních konferencích./More than 10 other contributions at important international conferences

**Publikace nevztahující se k tématu disertační práce/Publications not related to the PhD thesis topic:**

31. F. Jaulmes, O. **Ficker**, V. Weinzettl, M. Komm, O. Grover, J. Seidl, G. Zadvitskiy, E. Macusova, R. Panek, “Modelling of Neutron Markers for the COMPASS Upgrade Tokamak and Generation of Synthetic Neutron Spectra,” en, *Journal of Fusion Energy*, vol. 41, no. 2, Jul. 2022
32. F. Casson, H. Patten, C. Bourdelle, S. Breton, J. Citrin, F. Koechl, M. Sertoli, C. Angioni, Y. Baranov, R. Bilato, E. Belli, C. Challis, G. Corrigan, A. Czarnecka, O. **Ficker**, L. Frassinetti, L. Garzotti, M. Goniche, J. Graves, T. Johnson, K. Kirov, P. Knight, E. Lerche, M. Mantsinen, J. Mlynar, M. Valisa, c. JET, “Predictive multi-channel flux-driven modelling to optimise ICRH tungsten control and fusion performance in JET,” *Nuclear Fusion*, vol. 60, no. 6, 2020
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35. V. Weinzettl, J. Adamek, M. Berta, P. Bilkova, O. Bogar, P. Bohm, J. Cavalier, R. Dejarnac, M. Dimitrova, O. **Ficker**, D. Fridrich, O. Grover, P. Hacek, J. Havlicek, A. Havranek, J. Horacek, M. Hron, M. Imrisek, M. Komm, K. Kovarik, J. Krbec, T. Markovic, E. Matveeva, K. Mitosinkova, J. Mlynar, D. Naydenkova, R. Panek, R. Paprok, M. Peterka, A. Podolnik, J. Seidl, M. Sos, J. Stockel, M. Tomes, M. Varavin, J. Varju, M. Vlasic, P. Vondracek, J. Zajac, F. Zacek, M. Stano, G. Anda, D. Dunai, T. Krizsanoczi, D. Refy, S. Zoletnik, A. Silva, R. Gomes, T. Pereira, T. Popov, D. Sarychev, G. P. Ermak, J. Zebrowski, M. Jakubowski, M. Rabinski, K. Malinowski, S. Nanobashvili, M. Spolaore, N. Vianello, E. Gauthier, J. P. Gunn, A. Devitre, “Progress in diagnostics of the COMPASS tokamak,” en, *Journal of Instrumentation*, vol. 12, no. 12, 2017
36. V. Weinzettl, J. Adamek, P. Bilkova, J. Havlicek, R. Panek, M. Hron, O. Bogar, P. Bohm, A. Casolari, J. Cavalier, R. Dejarnac, M. Dimitrova, I. Duran, S. Entler, O. **Ficker**, P. Hacek, J. Horacek, M. Imrisek, F. Jaulmes, K. Kovarik, J. Krbec, L. Kripner, T. Markovic, D. Naydenkova, M. Peterka, A. Podolnik, F. Pova, M. Sos, D. Sestak, M. Tomes, M. Varavin, J. Varju, P. Vondracek, J. Zajac, “Constraints on conceptual design of diagnostics for the high magnetic field COMPASS-U tokamak with hot walls,” *Fusion Engineering and Design*, SI:SOFT-30, vol. 146, Sep. 2019
37. J. Svoboda, J. Mlynar, M. Imrisek, O. **Ficker**, P. Carvalho, J. Contrinutors, “Comparative analysis

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Další příspěvky jako spoluautor./Other contributions as co-author.