

**Jméno, příjmení, titul žadatele:**

**Given name, surname, academic degree of student:**

Ing. Jaroslav Krbec

**Seznam publikovaných prací:**

**List of publications:**

1. Krbec, J., and Háček, P., Berta, M., Seidl, J., Hron, M., Pánek, R. (2018), Fast density reconstruction of Li-BES signal on the COMPASS tokamak, *Review of Scientific Instruments*, 89(11):113504
2. Seidl, J., Krbec, J., Hron, M., Adamek, J., Hidalgo, C., Markovic, T., Melnikov, A., Stockel, J., Weinzettl, V., Aftanas, M., et al. (2017), Electromagnetic characteristics of geodesic acoustic mode in the COMPASS tokamak, *Nuclear Fusion*, 57(12):126048
3. de Souza, F.C., Elfimov, A., Galvão, R., Krbec, J., Seidl, J., Stöckel, J., Hron, M., Havlicek, J., Mitosinkova, K. (2017), Geodesic mode instability driven by electron and ion fluxes during neutral beam injection in tokamaks, *Physics Letters A*, 366:3066-3070
4. Anda, G., Bencze, A., Berta, M., Dunai, D., Hacek, P., Krbec, J., Réfy, D., Krizsanóczy, T., Bató, S., Ilkei, T., et al. (2016), Lithium beam diagnostic system on the COMPASS tokamak, *Fusion Engineering and Design*, 108:1-6
5. Komm, M., Bílková, P., Aftanas, M., Berta, M., Böhm, P., Bogár, O., Frassinetti, L., Grover, O., Háček, P., Havlicek, J., Hron, M., Imříšek, M., Krbec, J., et al. (2017), Contribution to the multi-machine pedestal scaling from the COMPASS tokamak, *Nuclear Fusion*, 57(5):056041
6. Berta, M., Anda, G., Bencze, A., Dunai, D., Háček, P., Hron, M., Kovácsik, A., Krbec, J., Pánek, R., Réfy, D., et al. (2015), Li-BES detection system for plasma turbulence measurements on the COMPASS tokamak, *Fusion Engineering and Design*, 96:795-798
7. Weinzettl, V., Adamek, J., Berta, M., Bilkova, P., Bogar, O., Bohm, P., Cavalier, J., Dejarnac, R., Dimitrova, M., Ficker, O., Fridrich, D., Grover, O., Hacek, P., Havlicek, J., Havranek, A., Horacek, J., Hron, M., Imrisek, M., Komm, M., Kovarik, K., Krbec, J., et al. (2017), Progress in diagnostics of the COMPASS tokamak, *Journal of Instrumentation*, 12(12):C12015
8. Bencze, A., Berta, M., Buzas, A., Hacek, P., Krbec, J., Szutyanyi, M., and COMPASS Team, et al. (2019), Characterization of edge and scrape-off layer fluctuations using the fast Li-BES system on COMPASS, *Plasma Physics and Controlled Fusion*, 61(8):085014
9. Grover, O., Seidl, J., Réfy, D., Adamek, J., Vondracek, P., Tomes, M., Junek, P., Hacek, P., Krbec, J., Weinzettl, V., et al. (2018), Limit cycle oscillations measurements with Langmuir and ball-pen probes on COMPASS, *Nuclear Fusion*, 58.11: 112010
10. Komm, M., Khodunov, I., Cavalier, J., Vondracek, P., Henderson, S.S., Seidl, J., Horacek, J., Naydenkova, D., Adamek, J., Bilkova, P., Bohm, P., Devitre, A.R., Dimitrova, M., Elmore, S., Faitsch, M., Hacek, P., Havlicek, J., Havranek, A., Imrisek, M., Krbec, J., et al. (2019), Divertor impurity seeding experiments at the COMPASS tokamak, *Nuclear Fusion*, 59.10: 106035.

11. Ficker, O., Macusova, E., Mlynář, J., Bren, D., Casolari, A., Cerovsky, J., Farnik, M., Grover, O., Havlicek, J., Havranek, A., Hron, M., Imrisek, M., Jerab, M., Krbec, J., et al. (2019), Runaway electron beam stability and decay in COMPASS, *Nuclear Fusion*
12. Weinzettl, V., Adamek, J., Bilkova, P., Havlicek, J., Panek, R., Hron, M., Bogar, O., Bohm, P., Casolari, A., Cavalier, J., Dejarnac, R., Dimitrova, M., Duran, I., Entler, S., Ficker, O., Hacek, P., Horacek, J., Imrisek, M., Jaulmes, F., Kovarik, K., Krbec, J., et al. (2019), Constraints on conceptual design of diagnostics for the high magnetic field COMPASS-U tokamak with hot walls, *Fusion Engineering and Design*
13. Panek, R., Adámek, J., Aftanas, M., Bílková, P., Böhm, P., Brochard, F., Cahyna, P., Cavalier, J., Dejarnac, R., Dimitrova, M., Grover, O., Harrison, J., Háček, P., Havlíček, J., Havránek, A., Horáček, J., Hron, M., Imříšek, M., Janky, F., Kirk, A., Komm, M., Kovařík, K., Krbec, J., et al. (2015), Status of the COMPASS tokamak and characterization of the first H-mode, *Plasma Physics and Controlled Fusion* 58(1):014015
14. Podolnik, A., Komm, M., Adamek, J., Hacek, P., Krbec, J., Dejarnac, R., Gunn, J., Panek, R. (2018), 3D particle-in-cell modeling of Langmuir probe effective collecting area in magnetized plasma, *Plasma Physics and Controlled Fusion*, 60.8: 085008.
15. Meyer, H., et al. (2017), Overview of progress in European medium sized tokamaks towards an integrated plasma-edge/wall solution, *Nuclear Fusion*, 57(10):102014
16. Panek, R., Markovic, T., Cahyna, P., Dejarnac, R., Havlicek, J., Horacek, J., Hron, M., Imrisek, M., Junek, P., Komm, M., Sestak, D., Urban, J., Varju, J., Weinzettl, V., Adamek, J., Bilkova, P., Bohm, P., Dimitrova, M., Hacek, P., Kovarik, K., Krbec, J., et al. (2017), Conceptual design of the COMPASS upgrade tokamak, *Fusion Engineering and Design*, 123:11-16
17. Svoboda, V., Kocman, J., Grover, O., Krbec, J., Stöckel, J. (2017), Remote operation of the vertical plasma stabilization@ the GOLEM tokamak for the plasma physics education, *Fusion Engineering and Design*, 96:974-979
18. Hacek, P., Berta, M., Anda, G., Aradi, M., Bencze, A., Dunai, D., Krbec, J., Panek, R., Refy, D., Stockel, J., et al. (2018), Development of an ion beam detector for the atomic beam probe diagnostic, *Review of Scientific Instruments*, 89(11):113506