

Mechanismus urychlení a ztrát energetických elektronů (RE – runaway electrons) CAAS final report

June 22, 2023

Articles in Journals

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- [Cer+22] J. Cerovsky et al. “Progress in HXR diagnostics at Golem and COMPASS tokamaks”. In: *Journal of Instrumentation* 17.01 (2022), p. C01033. DOI: 10.1088/1748-0221/17/01/c01033. URL: <https://doi.org/10.1088/1748-0221/17/01/c01033>.
- [Kul+22] S. Kulkov et al. “Detection of runaway electrons at the COMPASS tokamak using a Timepix3-based semiconductor detector”. In: *Journal of Instrumentation* 17.02 (2022), P02030. DOI: 10.1088/1748-0221/17/02/p02030. URL: <https://doi.org/10.1088/1748-0221/17/02/p02030>.
- [Sar+21a] G Sarancha et al. “Magnetic turbulence and long-range correlation studies in the Golem tokamak”. In: *Journal of Physics: Conference Series* 2055.1 (2021), p. 012003. DOI: 10.1088/1742-6596/2055/1/012003. URL: <https://doi.org/10.1088/1742-6596/2055/1/012003>.
- [Nov+20] L. Novotny et al. “Runaway electron diagnostics using silicon strip detector”. In: *Journal of Instrumentation* 15.07 (2020), pp. C07015–C07015. DOI: 10.1088/1748-0221/15/07/c07015. URL: <https://doi.org/10.1088/1748-0221/15/07/c07015>.
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- [Sto+19] J. Stockel et al. “Operational Domain in Hydrogen Plasmas on the Golem Tokamak”. In: *Journal of Fusion Energy* (2019). ISSN: 1572-9591. DOI: 10.1007/s10894-019-00215-7.

Conference proceedings

- [MLS21] Š. Malec, V. Linhart, and V. Svoboda. “Correlations in signals generated by runaway electrons in the GOLEM tokamak measured using the Timepix3 detection modules”. In: *2021 IEEE Nuclear Science Symposium and Medical Imaging Conference (NSS/MIC)*. 2021, pp. 1–6. DOI: 10.1109/NSS/MIC44867.2021.9875920.
- [Dhy+19a] P. Dhyani et al. “Design and development of probe for the measurements of runaway electrons inside the Golem tokamak plasma edge”. In: vol. July. Europhysics conference abstracts. 2019, P1.1016. ISBN: 979-10-96389-11-7. URL: <http://ocs.ciemat.es/EPS2019PAP/pdf/P1.1016.pdf>.

Master thesis

- [S. 23] S. Malec. “Compton camera for detection of hard X-rays produced on the Golem tokamak”. Master Thesis. 2023. URL: <http://golem.fjfi.cvut.cz/wiki/Presentations/Students/MasterThesis/23MalecStepan.pdf>.
- [M. 22b] M. Tunkl. “Development of a new runaway electron diagnostics method based on strip semiconductor detectors”. Master Thesis. 2022. URL: <http://golem.fjfi.cvut.cz/wiki/Presentations/Students/MasterThesis/22TunklMarek.pdf>.