

List of publications

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Publications

- S. Kulkov, T. Potuckova, E. Bernasconi, C. Bruschini, T. Milanese, E. Charbon, Mst S. Shawkat, Ara, A. Nomerotski, P. Svihra, *Inter-pixel cross-talk as background to two-photon interference effects in SPAD arrays*, 2024, arXiv preprint arXiv:2406.15323
- J. Caloud, E. Tomesova, O. Ficker, J. Cerovsky, J. Mlynar, J. Adamek, P. Barton, P. Bilkova, P. Bohm, M. Bousek, I. Duran, S. Entler, A. Havranek, M. Jerab, K. Kovarik, J. Krbec, M. Sos, M. Tadros, M. Tomes, M. Varavin, P. Vondracek, V. Weinzettl, J. Brotankova, S. Kulkov, M. Marcisovsky, *Calorimetry probe for runaway electron heat load measurement at COMPASS*, 2024, submitted to Review of Scientific Instruments
- J. Ferrantini, J. Crawford, S. Kulkov, J. Jirsa, A. Mueninghoff, L. Lawrence, S. Vintskevich, T. Milanese, S. Burri, E. Bernasconi, C. Bruschini, M. Marcisovsky, P. Svihra, A. Nomerotski, P. Stankus, E. Charbon, R. Abrahao, *Multifrequency-resolved Hanbury Brown-Twiss Effect*, 2024, arXiv preprint arXiv:2406.13959
- J. Jirsa, S. Kulkov, R. Abrahao, J. Crawford, A. Mueninghoff, E. Bernasconi, C. Bruschini, S. Burri, S. Vintskevich, M. Marcisovsky, E. Charbon, A. Nomerotski, *Fast data-driven spectrometer with direct measurement of time and frequency for multiple single photons*, 2023, arXiv preprint arXiv:2304.11999
- S. Kulkov, M. Marcisovsky, P. Svihra, M. Tunkl, M. van Beuzekom, J. Caloud, J. Cerovsky, O. Ficker, E. Macusova, J. Mlynar, V. Weinzettl, V. Svoboda, and the COMPASS team, *Detection of runaway electrons at the COMPASS tokamak using a Timepix3-based semiconductor detector*, 2022 JINST 17 P02030,

<https://iopscience.iop.org/article/10.1088/1748-0221/17/02/P02030>

- 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*, 2020 JINST 15 C07015,
<https://iopscience.iop.org/article/10.1088/1748-0221/15/07/C07015>

Conferences and workshops

- Stellar Intensity Workshop at Porquerolles, France, 9-13.9.2024 (talk/presentation)
- iWoRiD conference in Lisbon, Portugal, 25-29.6.2024 (poster)
- AQUA lab (EPFL university) Workshop in Les Diablerets, Switzerland, 20-23.3.2022
- J. Caloud, E. Tomesova, J. Cerovsky, O. Ficker, J. Mlynar, A. Casolari, S. Kulkov, V. Svoboda, *Monte-Carlo simulations of runaway electron impact on tokamak plasma-facing components*, 49th EPS Conference on Plasma Physics,
https://lac913.epfl.ch/epsppd3/2023/html/Tu/Tu_MCF20_Caloud.pdf
- J. Caloud, E. Macusova, O. Ficker, J. Cerovsky, J. Mlynar, J. Adamek, P. Barton, P. Bilkova, P. Bohm, M. Bousek, I. Duran, S. Entler, M. Farnik, A. Havranek, M. Hron, M. Jerab, K. Kovarik, J. Krbec, S. Kulkov, M. Marcisovsky, R. Panek, M. Sos, M. Tadros, M. Tomes, M. Varavin, P. Vondracek, V. Weinzettl, and COMPASS Team, *Calorimetry probe measurements of the runaway electron impact energy on plasma facing components at COMPASS tokamak*, 48th EPS Conference on Plasma Physics,
<https://lac913.epfl.ch/epsppd3/2022/pdf/P2b.118.pdf>
- S. Kulkov, M. Marcisovsky, P. Svihra, O. Ficker, J. Caloud, J. Cerovsky, E. Macusova, V. Weinzettl, J. Mlynar, M. Beuzekom, M. Fransen, D. Bren, V. Linhart, V. Svoboda, M. Tunkl and the COMPASS team, *Runaway electron study at the COMPASS tokamak using the Timepix3-based silicon pixel detector with SPIDR 10 GBps readout*, 47th EPS Conference on Plasma Physics,
<http://ocs.ciemat.es/EPS2021PAP/pdf/P3.1006.pdf>

- S. Kulkov, P. Macha, V. Istokskaja, D. Kropackova, F. Papousek, J. Adamek, J. Cerovsky, O. Ficker, O. Grover, K. Jirakova, J. Stockel, V. Svoboda, *Tokamak GOLEM for fusion education - chapter 10*, 46th EPS Conference on Plasma Physics,
<http://ocs.ciemat.es/EPS2019PAP/pdf/P1.1068.pdf>