

List of publications in peer-reviewed journals

1. Smirnov, V., Vorozhtsov, S. B., Taft, F., & Matlocha, T. (2019). Superconducting 70 AMeV cyclotron-injector for a hadron therapy complex. *Nuclear Instruments and Methods in Physics Research*. <https://doi.org/10.1016/j.nima.2019.03.099>
2. Granja, C., Jakubek, J., Martisikova, M., Kodaira, S., Polansky, S., Krist, P., Zach, V., & Matlocha, T. (2018). Dynamic range and resolving power of the Timepix detector to heavy charged particles. *Journal of Instrumentation*, 13(11), C11003. <https://doi.org/10.1088/1748-0221/13/11/c11003>
3. Křížek, F., Ferencei, J., Matlocha, T., Pospíšil, J., Příbeli, P., Raskina, V., Isakov, A., Stursa, J., Vaňát, T., & Vysoká, K. (2018). Irradiation setup at the U-120M cyclotron facility. *Nuclear Instruments and Methods in Physics Research*, 894, 87–95. <https://doi.org/10.1016/j.nima.2018.03.066>
4. Matlocha, T., & Krizek, F. (2018). ULTRA-LOW INTENSITY PROTON BEAMS FOR RADIATION RESPONSE RELATED EXPERIMENTS AT THE U-120M CYCLOTRON. *Acta Polytechnica CTU Proceedings*. <https://doi.org/10.14311/app.2018.14.0021>
5. Matlocha, T. (2018). Modification of a classical penning ion source operating mode for sub-femtoampere beams at the U-120M cyclotron. *AIP Conference Proceedings*. <https://doi.org/10.1063/1.5053321>

List of publications in non peer-reviewed journals

Čihák, M., Štursa, J., Krist, P., Běhal, R., Matlocha, T., Zach, V., Project of a novel multi-orbital beam bunching and extraction from the U-120M cyclotron. *CYC 2019 - Proceedings of the 22nd International Conference on Cyclotrons and their Applications*. Vol. 2019. Cape Town: JaCoW Publishing, 2020, s. 80-82. ISBN 978-3-95450-205-9.

Matlocha, Tomáš, Deflecting system upgrade initial simulations for 37 MeV cyclotron at NPI REZ, *CYC 2019 - Proceedings of the 22nd International Conference on Cyclotrons and their Applications*. Vol. 2019. Cape Town: JaCoW Publishing, 2020, s. 186-189. ISBN 978-3-95450-205-9.

Isakov, A., Krizek, F., & Matlocha, T. (2021b). Irradiation setup at the U-120M cyclotron facility. *Proceedings of 40th International Conference on High Energy Physics — PoS(ICHEP2020)*. <https://doi.org/10.22323/1.390.0986>