

Jméno, příjmení, titul žadatele:

Given name, surname, academic degree of student:

Marek, Sommer, Ing.

Seznam publikovaných prací:

List of publications:

Ondrák, Lukáš, et al. "EXPERIMENTAL IN VITRO DOSIMETRY OF 223RA AND 177LU." *Radiation Protection Dosimetry* 198.9-11 (2022): 508-513.

Kákona, Jakub, et al. "MEASUREMENT OF THE REGENER-PFOTZER MAXIMUM USING DIFFERENT TYPES OF IONISING RADIATION DETECTORS AND A NEW TELEMETRY SYSTEM TF-ATMON." *Radiation Protection Dosimetry* 198.9-11 (2022): 712-719.

Sommer, Marek, et al. "CALIBRATION OF SILICON DETECTORS LIULIN AND AIRDOS USING COSMIC RAYS AND TIMEPIX FOR USE AT FLIGHT ALTITUDES." *Radiation Protection Dosimetry* 198.9-11 (2022): 597-603.

Sommer, Marek, et al. "Monte Carlo simulation of semiconductor-based detector in mixed radiation field in the atmosphere." *Life Sciences in Space Research* (2022).

Sommer, Marek, et al. "Novel Model for Analysis and Optimization of Silicon Photomultiplier-Based Scintillation Systems." *IEEE Transactions on Nuclear Science* 68.12 (2021): 2771-2778.

Sommer, Marek, et al. "High-energy per-pixel calibration of timepix pixel detector with laboratory alpha source." *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment* 1022 (2022): 165957.

Kovář, Pavel, and Marek Sommer. "CubeSat Observation of the Radiation Field of the South Atlantic Anomaly." *Remote Sensing* 13.7 (2021): 1274.

Kákona, M., et al. "AIRDOS—open-source PIN diode airborne dosimeter." *Journal of Instrumentation* 16.03 (2021): T03006.

Kovar, Pavel, et al. "Measurement of cosmic radiation in LEO by 1U CubeSat." *Radiation Measurements* 139 (2020): 106471.

Kyselová, Dagmar, et al. "Measurements of radiation induced by a spark discharge under laboratory conditions." *Radiation Measurements* 137 (2020): 106420.

Ambrožová, Iva, et al. "REFLECT—Research flight of EURADOS and CRREAT: Intercomparison of various radiation dosimeters onboard aircraft." *Radiation Measurements* 137 (2020): 106433.

Kákona, Martin, et al. "Comparative measurements of mixed radiation fields using liulin and AIRDOS dosimeters." *AIP Conference Proceedings*. Vol. 2075. No. 1. AIP Publishing LLC, 2019.

Granja, Carlos, et al. "Resolving power of pixel detector Timepix for wide-range electron, proton and ion detection." *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment* 908 (2018): 60-71.

Ploc, Ondřej, et al. "Intercomparison of LET spectra measured with Timepix and TEPC in reference radiation field CERF." *2018 IEEE Aerospace Conference*. IEEE, 2018.