

I. Publications related to the thesis – Impacted

Kraus, V. - Holík, M. - Jakůbek, J. - Kroupa, M. - Soukup, P. - et al., **FITPix - fast interface for Timepix pixel detectors**, In: Journal of Instrumentation [online]. 2011, vol. 6, art. no. C01079, p. 1-6. Internet: <http://dx.doi.org/10.1088/1748-0221/6/01/C01079>. ISSN 1748-0221.

Kraus, V. - Holik, M. - Jakůbek, J. - Georgiev, V., **FITPix data preprocessing pipeline for the Timepix single particle pixel detector**, Journal of Instrumentation [online]. 2012, no. 7, art. no. C04011, Internet: <http://iopscience.iop.org/1748-0221/7/04/C04011>. ISSN 1748-0221.

Holík, M. - Kraus, V. - Granja, C. - Jakůbek, J. - Georgiev, V. - et al., **Influence of electromagnetic interference on the analog part of hybrid Pixel detectors**, Journal of Instrumentation [online]. 2011, vol. 6, art. no. C12028, Internet: <http://dx.doi.org/10.1088/1748-0221/6/12/C12028>. ISSN 1748-0221.

Žemlička, J. - Jakůbek, J. - Kraus, V. - Holík, M., **Fast Spectroscopic Imaging with Pixel Semiconductor Detector Timepix and Parallel Data Reading**, Journal of Instrumentation [online]. 2014, vol. 9, art. no. C04007, Internet: http://iopscience.iop.org/1748-0221/9/04/C04007/pdf/1748-0221_9_04_C04007.pdf. ISSN 1748-0221.

Vavřík, D. - Holík, M. - Jakůbek, J. - Kraus, V. - Krejčí, F. - et al., **Modular pixelated detector system with the spectroscopic capability and fast parallel read-out**, Journal of Instrumentation [online]. 2014, vol. 9, art. no. C06006, p. 1-9. Internet: <http://iopscience.iop.org/1748-0221/9/06/C06006>. ISSN 1748-0221.

II. Publication related to the thesis - other

Granja, C. - Holík, M. - Jakúbek, J. - Kraus, V. - Kuwahara, T. - et al., **Timepix-based Miniaturized Radiation Micro-Tracker for the Micro-Satellite RISESAT**, Transactions of the Japan Society for Aeronautical and Space Sciences, Aerospace Technology Japan 01/2014; 12(ists29):Tr_7-Tr_11. DOI: 10.2322/tastj.12.Tr_7

Vykydal, Z. - Holík, M. - Kraus, V. - Pospíšil, S. - Šolc, J. - et al., **A Highly Miniaturized and Sensitive Thermal Neutron Detector for Space Applications**, IX LATIN AMERICAN SYMPOSIUM ON NUCLEAR PHYSICS AND APPLICATIONS. Melville, New York: American Institute of Physics, 2012, p. 393-396. ISSN 0094-243X. ISBN 978-0-7354-1003-9.

Holik, M.; Kraus, V.; Broulim, J.; Georgiev, V., "**The interface for the pixelated particle detector with the capability of the spectroscopy function and the coincidence measurement operation**," Telecommunications Forum (TELFOR), 2013 21st , vol., no., pp.557,560, 26-28 Nov. 2013, doi: 10.1109/TELFOR.2013.6716290

M. Holik, V. Kraus, J. Bartovsky, A. Krutina, V. Georgiev, V., "**SPECTRIG — Device for triggering and spectroscopy with the pixelated particle detector**," Telecommunications Forum (TELFOR) 2012, vol. 20, (2012) pp.959-962; doi: 10.1109/TELFOR.2012.6419368

V. Kraus, M. Holik, J. Bartovsky, V. Georgiev, J. Jakubek, D. Schneider, "**Space Weather Monitor Based on the Timepix Single Particle Pixel Detector**", Telecommunications Forum (TELFOR), 2010, ISBN 978-86-7466-392-9

III. Publications without relation to the thesis

Vjačeslav Georgiev, Michael Holík, Václav Kraus, Aleš Krutina, Zdeněk Kubín, Jindřich Liška, Martin Poupa, **The blade flutter measurement based on the blade tip timing method**, ICC, 2011, Corfu, Greece, ISBN: 987-1-61804-023-7

HOLÍK, M. **Ultra Low Power Datalogger**. In *Nuclear Physics Methods and Accelerators in Biology and Medicine*. Melville, N. Y.: American Institute of Physics, 2009. s. 180-181. ISBN: 978-0-7354-0741-1

Bartovsky, J.; Holik, M.; Kraus, V.; Krutina, A.; Salom, R.; Georgiev, V., "**Overview of recent advances in hardware implementation of mathematical morphology**," Telecommunications Forum (TELFOR), 2012 20th , vol., no., pp.642,645, 20-22 Nov. 2012, doi: 10.1109/TELFOR.2012.6419292