



CERN Baltic Group – Activities of Kaunas University of Technology 2021

Assoc. Prof. Dr. Brigita Abakevičienė

brigita.abakeviciene@ktu.lt

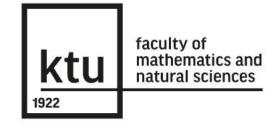
23rd of August, 2021

"Accelerator Schools" - accelerator and/or particle physics



22nd of March – 4th of April, 2020

https://indico.cern.ch/event/842297/





RF for Accelerators, 22 March - 4 April 2020, Kaunas, Lithuania

Overview



Financial aspects





Registration is open

RELATED LINKS

Indico page

Europa Royale Hotel?

Kaunas University of Technology@

In collaboration with the Kaunas University of Technology (KTU) the CERN accelerator school is organizing a topical course on:

RF FOR ACCELERATORS

Practical info

Visas



International Masterclasses

> 24th of February, 2021

CMS International Masterclass Hands on Particle Physics





https://masterclass.ktu.edu/





> 24th of March, 2021 Hadron Therapy Masterclass https://in

https://indico.cern.ch/event/1017747/





Vilnius University



NATIONAL CANCER INSTITUTE

https://hadrontherapy.ktu.edu/

Participation in joint projects/calls



Lithuanian Academy of Sciences

Research and experimental development projects are related to the activities of the European Organization for Nuclear Research (CERN).





2019-2020 Experimental characterization of thin films and structures used in vacuum chamber for particle accelerators (51 kEUR in 2021)

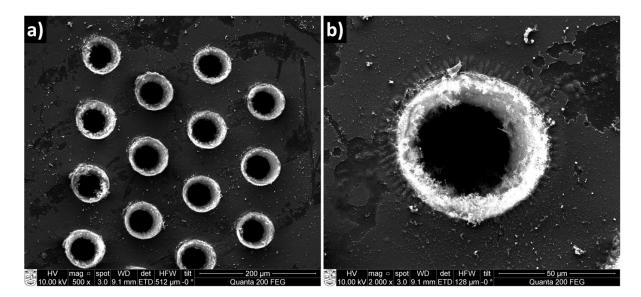
Project leader Prof. Sigitas Tamulevičius (In colloboration with Dr. Mauro Taborelli, VSC Group, CERN)

2021 - 2022 Materials and technologies for the high-gain Fast Timing MPGD detector (FTM)

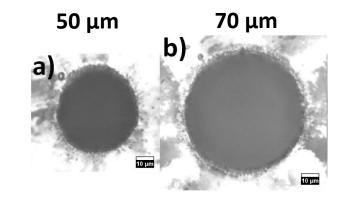
Project leader Prof. Sigitas Tamulevičius (20 kEUR in 2021) (In colloboration with Dr. Piet Verwilligen, National Institute for Nuclear Physics and CERN)

Materials and technologies for the high-gain Fast Timing MPGD detector (FTM) (2021 – 2022)

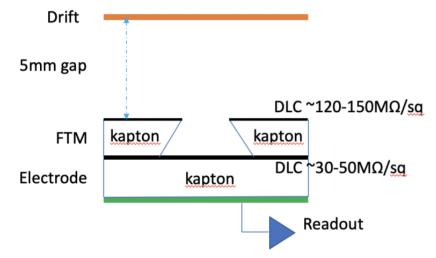
The project aim to improve the technology used in the production of a new type of Micro Pattern Gaseous Detectors (MPGD).



SEM micrographs of holes formed in **KAPTON coated with DLC**: a) small fraction of hole array formed by removing DLC prior to drilling, b) a single hole from the array, showing DLC crumpling KAPTON average hole diameters:



Schematic overview of a single layer of the FTM prototype



Ch. Roskas, P. Verwilligen et al. Proceedings of Science, EPS-HEP2019 (2020) 158. DOI: <u>10.22323/1.364.0158</u>