

CBG CMS — Lithuania

Andrius Juodagalvis, Valdas Rapsevicius, Aurelijus
Rinkevicius, Gintautas Tamulaitis

Vilnius University

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Current Status

Status: Computing & Software

Currently working on

- Moving to nanoAOD for analysis FW
- Machine-learning-based data certification
- Continuous integration for analysis & online
- Learning how to utilize EuroHPC for CMS/CERN

Status: Detector & Software

Currently working on

GEMs

- Databases

MTDs

- Testing production-grade crystals (?)
- Scintillating material studies

Pixels

- DAQ
- Investigating TEPX entry points
- Databases

Online Monitoring System (stepping away?)

Past Expertise

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In the past we have worked on

- Detector configuration tools
- Online DAQ
- Online monitoring
- HCAL DPG
- Cathode Strip Chambers: refurbishment, testing
- VU had Tier-3 (expertise still there?)

Thoughts on Future

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In the Baltics, we could establish

- Common analysis framework \Rightarrow framework for science
 - Start by conglomerating tools
- Riga&Vilnius learn from Tallinn T2 \Rightarrow consortium?
- Make Baltic&Friends pool of topics for students
 - Crystal-based detectors
 - Si-based detectors
 - FPGAs and tracking
- Work together on (system-agnostic) DAQ?

Have a detailed proposal next time?