

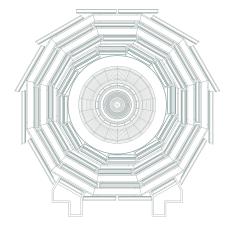
Centre of High-Energy Physics and Accelerator Technologies

# CBG Study Programme Group



### Kārlis Dreimanis

02.06.2021





- The entire documentation package has been fully approved by both RTU and UL and has been submitted for licensing!
- Big thanks to everyone who contributed and helped the efforts!
- Onto Step 2 Implementation!

### **Doctoral students**



- We have five doctoral students who will start their degree in autumn 2021:
  - Antra Gaile (HEP);
  - Valts Krūmiņš (HEP);
  - Normunds Strautnieks (HEP);
  - Kristaps Paļskis (AT);
  - Luca Piacentini (AT);
- Additionally, <u>at least</u> one student will transfer to the new programme in autumn:
  - Andris Potrebko (HEP);
- There is, potentially, a space for a further student;

## Implementation - study courses



Title	Туре	ECTS	Responsible	Semester	Preparation Deadline
Particle Physics Theory	O,M	12.0	Yuri Dokshitzer	1st/2nd	31.08.2021
Accelerator Technologies	O,M	12.0	Toms Torims	1st	31.08.2021
Particle Detectors	0	3.0	Kārlis Dreimanis	1st	31.08.2021
Computing and Programming for Physics	0	3.0	Kārlis Dreimanis	1st	31.08.2021
Statistical Methods in Data Analysis	0	3.0	Mārcis Auziņš*	2nd	30.11.2021
Radiation Safety	0	1.5	Elīna Pajuste	2nd	30.11.2021
Introduction to Particle Physics	С	3.0	Yuri Dokshitzer	1st	31.08.2021
Mathematics for Particle Physics	С	6.0	Vjačeslavs Kaščejevs**	1st	31.08.2021
Relativity and Cosmology	С	6.0	Vjačeslavs Kaščejevs**	2nd	30.11.2021
Particles for Medical Physics	С	6.0	Jurijs Dehtjars	1st	31.08.2021
Data Science for Physics	С	6.0	Kārlis Dreimanis	2nd	30.11.2021
Computer Aided Design	С	4.5	Andris Ratkus	2nd	30.11.2021
Electronics Lab.	С	4.5	Māris Tērauds	1st	***

#### O - obligatory; C - choice; M - main;

- Will be given by a different lecturer;
- \*\* Must be prepared by another individual, Vjačeslavs was kind enough to step in as a placeholder for the preparation stage;
- \*\*\* Existing course;



### Courses



- The two courses marked with \*\* are in need of person-power;
  - Mathematics for Particle Physics 6.0 ECTS [1st semester];
  - Relativity and Cosmology
    6.0 ECTS [2nd semester];
- Great potential to be covered by a guest lecturer/-s from the CBG!
- The **potential** list from our group we have compiled at the moment:
  - Aurelijus Rinkevičius;
  - Jaan Kalda;
  - Andrius Juodagalvis;
  - Thomas Gajdosik;
  - Stefan Groote;
  - Andi Hektor;
  - ..others?

#### • This is not a bug it is a feature, because...





- This programme was <u>never</u> meant to be a RTU/UL programme only!
- We must now start look to the future to expand this into a regional programme;
- Involvement of guest lecturers form CBG is a good step in this direction;
- We must begin discussions on how to proceed in the next few years to achieve this ultimate goal!
- In addition to the programme becoming regional, we also must begin work on it being more flexible than currently prepared (once licensing is done);



- We plan to submit an Erasmus Mundus Joint Measures application for a join masters in "Particle Physics and Accelerator Technologies" in <u>2022</u>;
- RTU are happy to take the lead; equally open to support another CBG member;
- Interested institutes should state their interest;
- Another tool in showing the necessity to expand the doctoral programme to a Baltic level!



## Discussion