

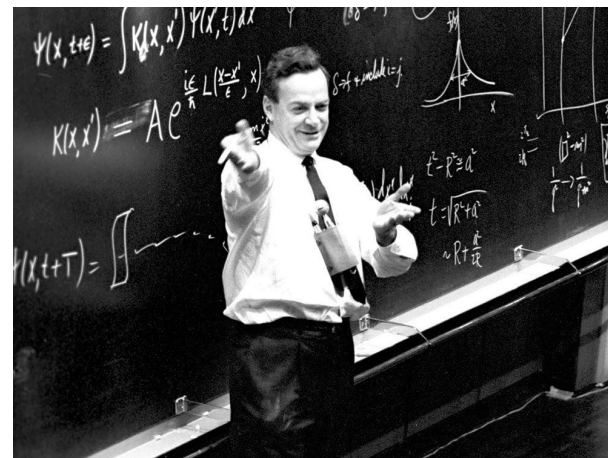


Baltic School of High-Energy Physics and Accelerator technologies 2024

Kārlis Dreimanis

CBG General Meeting, Riga Stradins University, Latvia
12.10.2023

- Baltic School of High-Energy Physics and Accelerator technologies (BSHEPAT) is one of two of our *flagship annual events* of the CERN Baltic Group.
- Target participants:
 - Primary: early-year PhD students;
 - Secondary: Talented master's students;
 - Tertiary: related-field post-docs.
- Target fields of teaching:
 - HEP (general and targeted);
 - Accelerator physics;
 - Particle Detectors;
 - Accelerator technologies;
 - Societal use of particle accelerators;



- Three [super-successful] events so far ...

BALTIC SCHOOL OF HIGH-ENERGY PHYSICS AND ACCELERATOR TECHNOLOGIES 2021

Klapkalnciems, Latvia
August 2 - August 6, 2021

Lecturers:
Dr. Maurizio Vretenar
Prof. Dr. Jonathan Ellis
Prof. Dr. Yuri Dokshitzer
Prof. Dr. Matteo Cacciari

Scientific Program:

- Quantum Field Theory
- Quantum Electrodynamics
- Quantum Chromodynamics
- Standard Model
- Higgs Mechanism
- Beyond the Standard Model
- Collider physics
- Precision physics at the LHC
- Particle accelerator technologies
- Particle accelerator applications

Local Organizing Committee:
Dr. Mario Kadastik (NICPB, EE)
Dr. Kārlis Dreimanis (RTU, LV)
Prof. Dr. Toms Torims (RTU, LV)
Ms. Ilina Grae (RTU, LV)
Ms. Aija Rīse (RTU, LV)
Andris Potrebko (RTU, LV)

Scientific Committee:
Dr. Mario Kadastik (NICPB, EE)
Prof. Dr. Marcis Auziņš (LU, LV)
Dr. Brigita Abakevičienė (KTU, LT)
Prof. Dr. Remo Velnich (TalTech, EE)
Dr. Vahur Zadin (UT, EE)
Dr. Thomas Gajdosik (VU, LT)
Dr. Martijn Mulders (CERN)
Prof. Dr. Leonids Ribickis (RTU, LV)
Dr. Jevgenijs Proskurins (RSU, LV)
Dr. Aleksas Mazeliauskas (CERN)

Further information:
<https://www.rtu.lv/hep/education/summer-school>
email: hep@rtu.lv

Registration deadline: June 25th



TAL TECH | TALLINN UNIVERSITY OF TECHNOLOGY

BALTIC SCHOOL OF HIGH-ENERGY PHYSICS AND ACCELERATOR TECHNOLOGIES 2022

Saaremaa, ESTONIA
August 8-12, 2022

LECTURERS:
Prof. Jonathan Ellis
Prof. Yuri Dokshitzer
Prof. Flyura Djurabekova
Prof. Leonid Rivkin
Dr. Maurizio Vretenar
Dr. Walter Wuensch
Dr. Andi Hektor

SCIENTIFIC COMMITTEE:
Prof. Fjodor Sergejev (TalTech)
Prof. Veronika Zadin (UT)
Prof. Toms Torims (RTU)
Prof. Brigita Abakevičienė (KTU)
Prof. Marcis Auziņš (LU)
Dr. Kristjan Kannike (NICBP)
Dr. Thomas Gajdosik (VU)
Dr. Jevgenijs Proskurins (RSU)

LOCAL ORGANIZING COMMITTEE:
Prof. Fjodor Sergejev (TalTech, EE)
Dr. Erik Kärber (TalTech, EE)
Prof. Veronika Zadin (UT, EE)
Voiko Vill (TalTech, EE)

SCIENTIFIC PROGRAMME:
Quantum Field Theory
Standard Model and Beyond
Physics at Colliders
Early Cosmology
Dark Matter
Gravitational Waves and New Physics
Accelerator Technologies
Accelerator Applications

Further information and fees:
Preliminary registration deadline:
indico.cern.ch/e/CBG2022
June 4th



Co-funded by H2020 ERA-Char MATTER (Grant Agreement No 856705)

ktu Kaunas university of technology

BALTIC SCHOOL OF HIGH-ENERGY PHYSICS AND ACCELERATOR TECHNOLOGIES 2023

August 7 - 11
Palanga, Lithuania

TOPICS:
Quantum field theory
Quantum chromodynamics and electrodynamics
Standard model physics and beyond
Collider physics and precision physics at the LHC
Accelerator technologies and applications
Application of accelerators in medicine / Interface between machine and patient

LECTURERS:
Dr. Maurizio Vretenar (CERN)
Prof. Jonathan Ellis (UK)
Prof. Yuri Dokshitzer (LV)
Prof. Leonid Rivkin (CH)
Prof. Kārlis Dreimanis (LV)
Dr. Aleksas Mazeliauskas (DE)
Prof. Yuval Grossman (USA)
Prof. Joao Seco (LV)
Prof. Toms Torims (DE)
Prof. Tiziano Camporesi (PT, USA)

SCIENTIFIC COMMITTEE:
Dr. Maurizio Vretenar (CERN)
Prof. Christoph Schaefer (CERN)
Prof. Toms Torims (RTU, LV)
Prof. Veronika Zadin (UT, EE)
Prof. Kārlis Dreimanis (RTU, LV)
Dr. Jevgenijs Proskurins (RSU, LV)
Dr. Alekssejs Klokovs (VIRAC, LV)
Dr. Uldis Valanis (VU, LT)
Prof. Fjodor Sergejev (TalTech, EE)
Prof. Veronika Zadin (UT, EE)
Prof. Marija Kadastik (NICPB, EE)
Dr. Erik Kärber (TalTech, EE)
Dr. Brigita Abakevičienė (KTU, LT)
Dr. Aurelijus Rinkevicius (VU, LT)
Dr. Asta Guobliene (KTU, LT)
Dr. Erika Rajackaitė (KTU, LT)
Dr. Rasa Zostautienė (KTU, LT)
PhD Mindaugas Illickas (KTU, LT)

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Dr. Asta Guobliene (KTU, LT)
Dr. Erika Rajackaitė (KTU, LT)
Dr. Rasa Zostautienė (KTU, LT)
PhD Mindaugas Illickas (KTU, LT)

REGISTRATION
Deadline: June 20, 2023

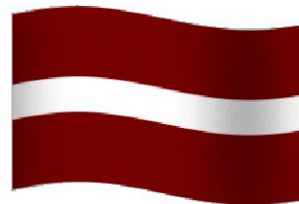
indico.cern.ch/event/1249205





... and having rotated through the three Baltic states,
BSHEPAT returns to Latvia for 2024 ...

4th CERN Baltic Group School 2024

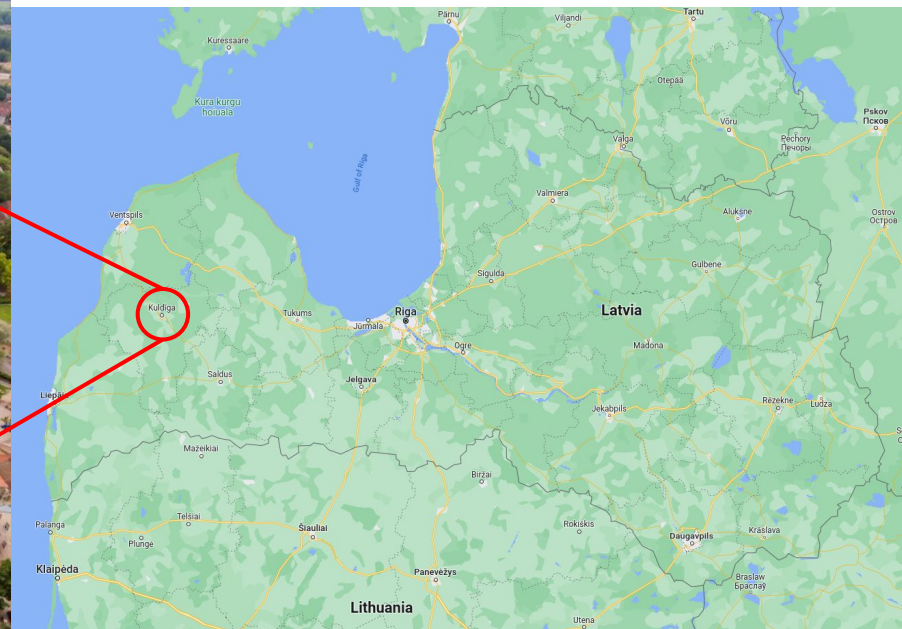


Thanks, Brigita, for this
beautiful slide :)

See you in Latvia!



- Planned location - **Kuldīga!**



- Planned location - **Kuldīga!**



- Est. 1378 (town rights);
- Pop. ~10'000 (c.2023);
- An important cultural centre in the Courland region of Latvia;
- A member city of the Hanseatic League;
- ~150 km driving distance from Riga
- ~140 km from RIX;
- Home of Europe's longest red-brick bridge;
- Home of the widest waterfall in Europe;

- Planned location - **Kuldīga!**

RIEŽUPES SMILŠU ALAS

[Sākums](#) [Par alām](#) [Kā mūs atrast?](#) [Atsauksmes](#)

Par alām

Riežupes smilšu alas
Atrašanās vieta:
Kuldīgas nov., Rumbas pag.,

Inese Štofregene
Tālrunis:
+371 29555042
+371 28636831
inesefo@inbox.lv

Darba laiks:
Katru dienu 11:00 - 17:00

Kā mūs atrast?

Sākums | Par alām | Kā mūs atrast? | Atsauksmes | Par alām
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- Home of the widest waterfall in Europe;
- Home of Rožupes sandstone caves;

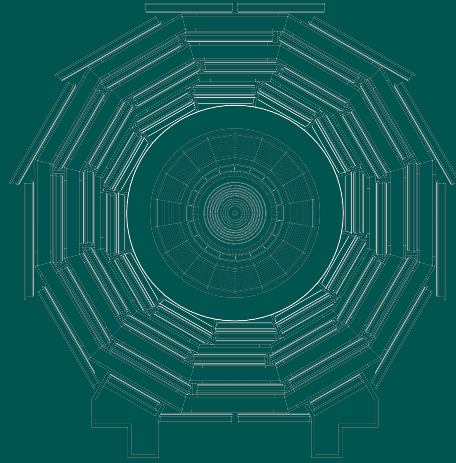
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- A member city of the Hanseatic League;
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- ~140 km from RIX;
- Home of Europe's longest red-brick bridge;
- Home of the widest waterfall in Europe;
- Home of Rožupes sandstone caves;
- Potential social activity could also be crayfish catching in the Venta river (if that is still legal?);

- We have attracted 20-25 (TBD) kEur from COST Action 22130 - "COMETA";
- We will have to slightly re-jig / tailor /focus the physics teaching in BSHEPAT'24 to align it a little bit better to the objectives of "COMETA":
 - Multi-boson physics;
 - Higgs physics;
 - (Machine learning ???);
- The above is TBD;
- We are exploring the option of elongating the school to 7 full days; (can we do more?);
- **Proposed dates : the week of 29.07.-02.08.**
- If CBG endorses the location and the sponsorship from "COMETA", we are happy to commence the work!





Thank you