

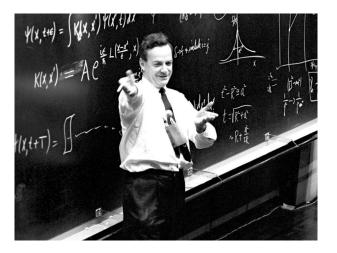


Baltic School of High-Energy Physics and Accelerator technologies 2024

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;





BSHEPAT - recap



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:

- Ouantum Field Theory - Ouantum Electrodynamics - Quantum Chromodynamics - Standard Model - Higgs Mechanism

- Beyond the Standard Model - Collider physics - Precision physics at the LHC Particle accelerator technologies

- Particle accelerator applications

Scientific Comitee:

Dr. Mario Kadastik (NICPB, EE)

Prof. Dr. Marcis Auzins (LU, LV)

Dr. Vahur Zadin (UT, EE)

Dr. Thomas Gaidosik (VU, LT)

Dr. Martiin Mulders (CERN)

Dr. Brigita Abakevičienė (KTU, LT)

Prof. Dr. Leonids Ribickis (RTU, LV)

Dr. Jevgenijs Proskurins (RSU, LV)

Dr. Aleksas Mazeliauskas (CERN)

Prof. Dr. Renno Veinthal (TalTech, EE)

Local Organizing Comitee: Dr. Kārlis Dreimanis (RTU, LV) Prof. Dr. Toms Torims (RTU, LV) Ms. Elina Grate (RTU, LV) Ms. Aija Rūse (RTU, LV) Andris Potrebko (RTU, LV)

Further information: https://www.rtu.lv/en/hep/education/summer-school email: hep@rtu.lv Registration deadline: June 25th



TAL TECH TALLINN UNIVERSITY

BALTIC SCHOOL OF ERGY **ACCELERATOR TECHNOLOGIES** 2022

Saaremaa, ESTONIA August 8-12, 2022

LECTURERS: SCIENTIFIC COMMITTEE:

Prof. Jonathan Ellis Prof. Fjodor Sergejev (TalTech) Prof. Yuri Dokshitzer Prof. Veronika Zadin (UT) Prof. Flyura Djurabekova Prof. Toms Torims (RTU) Prof. Leonid Rivkin Prof. Brigita Abakevičienė (KTU) Dr. Maurizio Vretenar Prof. Marcis Auzinš (UL) Dr. Walter Wuensch Dr. Kristjan Kannike (NICBP) Dr. Andi Hektor Dr. Thomas Gajdosik (VU) Dr. Jevgenijs Proskurins (RSU)

LOCAL ORGANIZING COMMITTEE:

Prof. Fjodor Sergejev (TalTech, EE) Prof. Veronika Zadin (UT, EE) Dr. Erki Kärber (TalTech, EE) Veiko Viil (TalTech, EE)

SCIENTIFIC PROGRAMME:

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

Further information and fees: Preliminary registration deadline: indico.cern.ch/e/CBG2022 June 1st



ktu university of technology **BALTIC SCHOOL OF HIGH-ENERGY PHYSICS AND ACCELERATOR TECHNOLOGIES** 2023 August 7 - 11 Palanga, Lithuania TOPICS LECTURERS: Dr. Maurizio Vretenar (CERN) Quantum field theory Quantum chromodynamics and electrodynamics Prof. Jonathan Ellis (UK) Standard model physics and beyond Prof. Yuri Dokshitzer (LV) Prof. Leonid Rivkin (CH) Collider physics and precision physics at the LHC Accelerator technologies and applications Application of accelerators in medicine / Prof. Karlis Dreimanis (LV) Dr. Aleksas Mazeliauskas (DE) Interface between machine and patient Prof. Yuval Grossman (USA) Prof. Joao Seco (DE) Prof. Toms Torims (LV) Prof. Tiziano Camporesi (PT, USA) SCIENTIFIC COMMITTEE: Dr. Mauridz Vietenar (CERN) Prof. Christiph Schafer (CENN) Dr. Johesejs Kloktors (VIRAC, LV) Dr. Briglia Abakevičans (KTU, LT) Dr. Agelija Rohevičans (KTU, LT) Dr. Agelija REGISTRATION Deadline: June 20, 2023 LOCAL ORGANIZING COMMITTEE: Dr. Brigita Abakevičienė (KTU, LT) Dr. Aurelijus Rinkevičius (VU, LT) 0520 Dr. Asta Guobienė (KTU, LT) Dr. Erika Rajackaitė (KTU, LT) Dr. Rasa Žostautienė (KTU, LT) PhD Mindaugas Ilickas (KTU, LT) indico.cern.ch/event/1249205 NICPB VIRAC × UNIVERSITY **RIGA STRADINŠ** DF LATVIA INIVERSITY RIGA TECHNICAL UNIVERSITY E LITHUANIAN ENERGY INSTITUTE

5

LITHUANIAN UNIVERSITY OF HEALTH SCIENCES

ktu

CERN

Baltic Group

karlis.dreimanis@rtu.lv





... 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!



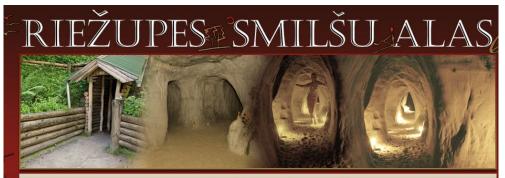
- Est. 1378 (town rights);
- Pop. ~10'000 (c.2023);
- An important cultural centre in the Courland region of Latvia;
- A member city of the Hanseatic League;
- ~150 km driving distance from Riga
 ~140 km from RIX;
- Home of Europe's longest red-brick bridge;
- Home of the widest waterfall in Europe;



• Planned location - Kuldīga!

Par alām

TELE



spēks.

OSākums OPar alām OKā mūs atrast? OAtsauksmes

Riežupes Smilšu alu kopējais garums ir apmēram 2 kilometri. Pašlaik no alu eksotikas ar neparasto

vilinājumu, varam apskatīt 460 metrus pazemes ejas, kuras veido labirintus, kam, kā stāsta, piemītot savāds

atrodoties alu āderu krustpunktā. Mīlestība, ticība,, un tālāk nonākam cerību zālē, kurā jūtam, ka esam



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

Inese Štofrēgene Tālunis:

+371 29555042 +371 28636831

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

Kā mūs atrast?

Alas ir raktas triju paaudžu garumā. viss alu labirints ir cilvēku roku darbs. Alas ir privātipasums, to ipašniece ir inese, kura ir alu mantiniece ceturtajā paaudžē. Alu baitās sihiltis tika izmantotas stikla rāzošanai līguciemā. Smilts ir tik baitas un tiras kā cukurs. Alas valda nemainīga galsa temperatūra. + 8 grādi visu gadu. Alas par savu mājvietu ziemā ir izvēlējušies sikspārņi. Alās ir sastopami astoņu sugu sikspārņi, kurt neviena neitraucēti pārziemo, lai pavasarī dotos prom un lautu tūristem apskatti labirintus. Alu smiltis cilvēki izmanto ārstnieciskos nolūkos, lai slidītu ar tām sāglīgās vietas, jo smilts sevi ir uzņēmušas jūras sāļu labumus. Atrodoties 8 metru dzijumā zem zemes, nonākam mīlestības zālē, kura ir iecienīta vieta jauliaulātājiem. Ziedi, ko vni atstaj ialās smiltīs, saglakajas bez ūdens mēnešiem iligi. Alas jauntaulātajiem sniedz pārdanšku spēku viru mīzān. Tālāk dodamies uz ticības zāli, kurs avakdas saglitus pārnem, sinedz pārdanšku spēku viru mīzān. Tālāk dodamies uz ticības zāli, kurs savādas saglitus pārnem,

enerģijas pilni, ar cerību, mīlestību sirdī un ticību sev!

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- Home of Rožupes sandstone caves;

Sākums | Par alām | Kā mūs atrast? | Atsauksmes | » Par alām © 2012-2023 www.smilsalas.iv | Izstrādāja eLapa

karlis.dreimanis@rtu.lv



• Planned location - Kuldīga!



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- 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