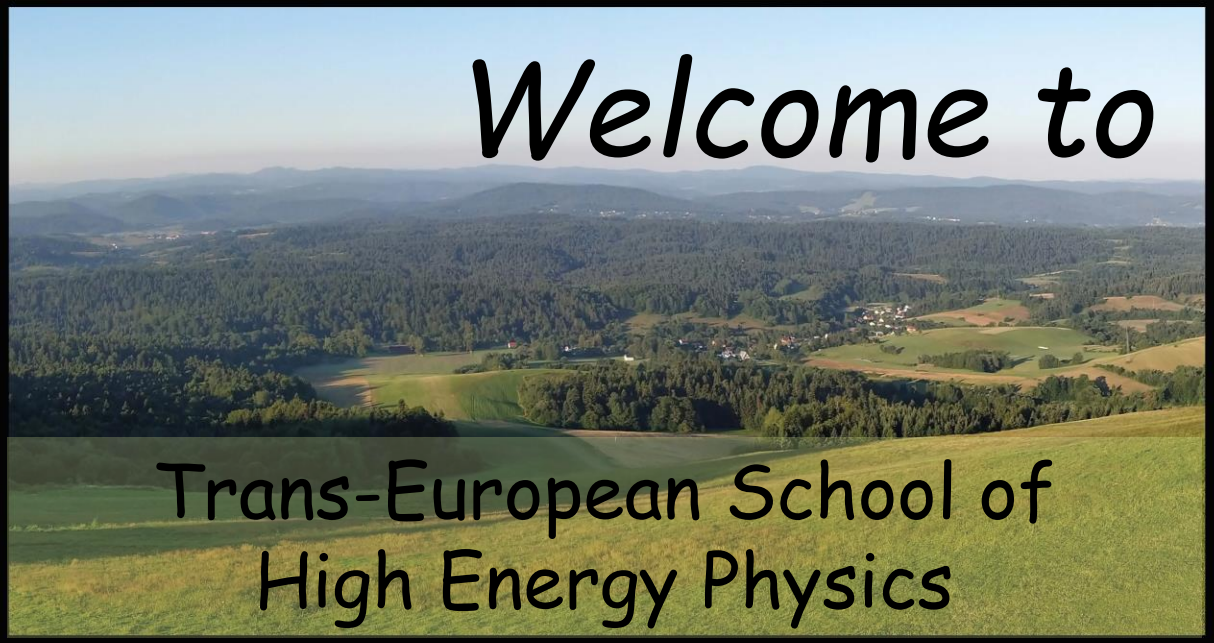
15th Trans-European School of High Energy Physics

Bezmiechowa Górna, Poland
July 11–20, 2024

Experimental Particle Physics
Standard Model and Beyond
Statistical Methods
Detector Instrumentation

Topical seminars
Practical sessions
Discussion sessions
Students' conference



Deadline for applications: April 30, 2024

Organizing committee

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teschool24.ijclab.in2p3.fr

University Gliding Centre, Bezmiechowa Górna

Bringing together European (and beyond) students

Teaching various aspects of high-energy physics, mainly focusing on experimental particle physics

…with the aim of reinforcing and encouraging the East-West Europe (and beyond…) scientific and pedagogical links.

The School was organised already in Poland in 2009 and 2015

2017: Ljubljana, Slovenia

2018 Poltava, Ukraine

2019 Volyn region Ukraine

After COVID pandemic and Russia aggression to Ukraine we organised the school in 2023 in Poland , here **close to the Ukrainian border**.

In 2024 we decided to organise the school here again !


Kyiv, Kharkiv, Sumy, Paris-Orsay, Krakow, Warsaw, Rzeszow, Tbilisi, Bristol, Bologna, CERN, Warwick, Edinburgh, Olomouc Marrakech, Casablanca
Edinbourg
Bristol
Warwick
Warszawa
Sumy
Kyiv
Kharkiv
Krakow
Rzeszow
Orsay
Olomouc
CERN
Bologna
Tbilisi
Casablanca
Marrakech
Johomaps 2006
NORVÈGE
SUÈDE
ESTONIE
LETTONIE
LITUANIE
RUSSIE
BIÉLARUSSIE
UKRAINE
KAZAKHSTAN
DANEMARK
ROYAUME-UNI
IRLANDE
PAYS-BAS
ALLEMAGNE
FRANCE
SUISSE
AUTRICHE
HONGRIE
ROUMANIE
MOLDAVIE
BULGARIE
SERBIE
CROATIE
BOSNIE & HERZÉGOVINE
MONTÉNÉGRO
MACÉDOINE
ALBANIE
GRÈCE
TURQUIE
ITALIE
ESPAGNE
PORTUGAL
ANDORRE
MONACO
SYRIE
IRAK
CHYPRE
LIBAN
TUNISIE
ALGÉRIE
MALTE
Océan Atlantique du Nord
Mer Méditerranée
Mer Noire
Mer Baltique

	11/7	12/7	13/7	14/7	15/7	16/7	17/7	18/7	19/7	20/7
Breakfast										
9:00-10:00		Introduction	SM 2	Accelerators 1	Accelerators 2	Accelerators 3	Topical : flavours & CPV	BSM	Future physics challenges	Departure
10:00-11:00		SM 1	SM 3	SM 4	Intro to QCD	Intro to QCD	Topical : flavours & CPV	BSM	Future physics challenges	
Break										
11:30-12:30		Detectors 1	Detectors 2	Detectors 3	Detectors 4	Topical : charm 50 years	Topical : flavours & CPV	Topical : Cosmic rays and CREDO	Future physics challenges	
12:30-13:30		Seminar 1 (Tadek)	Statistics	Statistics	Detectors 5	Topical : charm 50 years	Topical : flavours & CPV	Topical : Cosmic rays and CREDO	Seminar 4 (Mariola)	
Lunch										
15:00-16:00		Hands-on Team 2 / Work with Profs Team 1	Seminar 2 (Marta)	Hands-on Team 1 / Work with Profs Team 2	Excursion	Topical : charm 50 years	Seminar 3 (Iwona)	Topical : Cosmic rays and CREDO	Students conference	
16:00-17:00		Hands-on Team 2 / Work with Profs Team 1	Hot topic discussions (Achille)	Hands-on Team 1 / Work with Profs Team 2	Excursion	Topical : charm 50 years	Hot topic discussions (Achille)	Topical : Cosmic rays and CREDO	Students conference	
Break										
17:30-18:30	Conference Charpak (17h-19h)	Hands-on Team 1 / Work with Profs Team 2	Work with Profs	Hands-on Team 2 / Work with Profs Team 1	Excursion	Students-Profs work	« Football »	Students-Profs work	Students conference	
18:30-19:30	Conference Charpak (17h-19h)	Hands-on Team 1 / Work with Profs Team 2	Work with Profs	Hands-on Team 2 / Work with Profs Team 1	Excursion	Students-Profs work	« Football »	Students-Profs work	Summary	
Dinner					**School dinner**					
Evening session			Statistics games	Statistics games		Intro to CERN				
	Arrival									

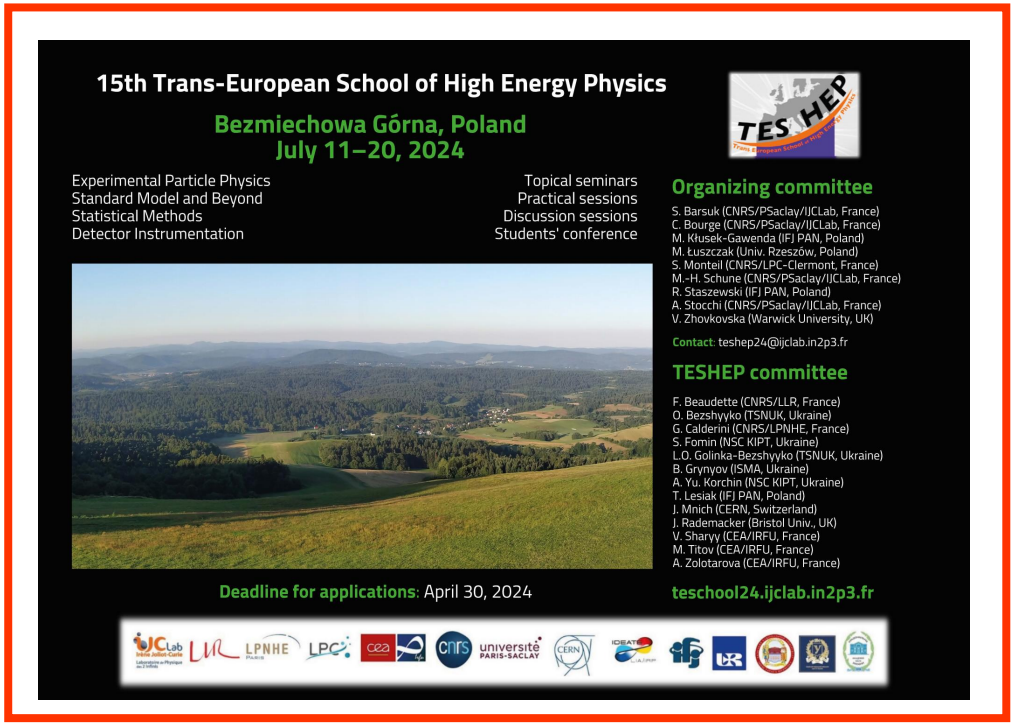
- Lectures
- Long Topical seminars
- Seminars
- Hand-on-Team sessions
- Hot topic discussion (your suggestions are also welcome !)

+ After dinner sessions with statistical games
+ Introduction to CERN

Work with professor to prepare the **Student Conference**

Lectures	
SM	Wolfgang Schaefer
BSM	Janusz Gluza
Detectors	Sergey Barsuk
Statistics	Jonas Rademaker
Accelerators	Pascal Dominik Hermes
Exercises in data analysis (hands-on)	Rafał Staszewski
Intro to QCD	Rafal Maciula
Future physics challenge	Vincenzo Vagnoni
Intro to CERN	Christophe Schaffer
Seminars	
Seminar 1: Future Circular Collider	Tadek Lesyak
Seminar 2: Photon induced processes in pp collisions	Marta Łuszczak
Seminar 3: Event-by-event correlations in heavy ions	Iwona Sputowska
Seminar 4: Photon-photon fusion in heavy-ion collisions	Mariola Kłusek-Gawenda
Topical highlight	
Charm 50 years	Sergey Barsuk & Guillaume Pietrzyk
Flavours & CPV	Achille Stocchi
Cosmic rays and CREDO	Robert Kaminski
Hot topics	Achille Stocchi

Presentation of the professors !



Please look at the list of professor/students groups

Practical things..

Please check the announcement board on the wall of the conference room and at the black board

Prizes

Best student presentation

Best student questions

Best lecture

Enjoy the school !

Its success relies on you