

16th Trans-European School of High Energy Physics

Stará Lesná, Slovakia
July 11-19, 2025



Experimental Particle Physics
Standard Model and Beyond
Neutrino Physics
Cosmology
Instrumentation

Topical workshops
Seminars
Practical sessions
Students/Professors Discussions
Students' conference



Organizing committee

S. Barsuk (CNRS/PSaclay/IJCLab, France)
C. Bourge (CNRS/PSaclay/IJCLab, France)
M. Kłusek-Gawenda (IFJ PAN, Poland)
S. Monteil (CNRS/LPC-Clermont, France)
M.-H. Schune (CNRS/PSaclay/IJCLab, France)
R. Staszewski (IFJ PAN, Poland)
A. Stocchi (CNRS/PSaclay/IJCLab, France)
P. Strizenec (SAS, Slovakia)
J. Urban (SAS, Slovakia)
V. Zhovkovska (Warwick University, UK)

TESHEP committee

P. Astier (CNRS/LPNHE, France)
F. Beaudette (CNRS/LLR, France)
O. Bezshyyko (TSNUK, Ukraine)
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S. Fomin (NSC KIPT, Ukraine)
L.O. Golinka-Bezshyyko (TSNUK, Ukraine)
B. Grynyov (ISMA, Ukraine)
A. Yu. Korchin (NSC KIPT, Ukraine)
F. Ledroit (CNRS/LPSC, Univ. Grenoble, France)
T. Lesiak (IFJ PAN, Poland)
J. Mnich (CERN, Switzerland)
J. Rademacker (Bristol Univ., UK)
Ch. Schaefer (CERN)
M. Titov (CEA/IRFU, France)

Deadline for applications: May 1st, 2025

Organizing Committee: teschool25.ijclab.in2p3.fr
Local Organizers: teshep2025@saske.sk



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.

2017



2018



2019

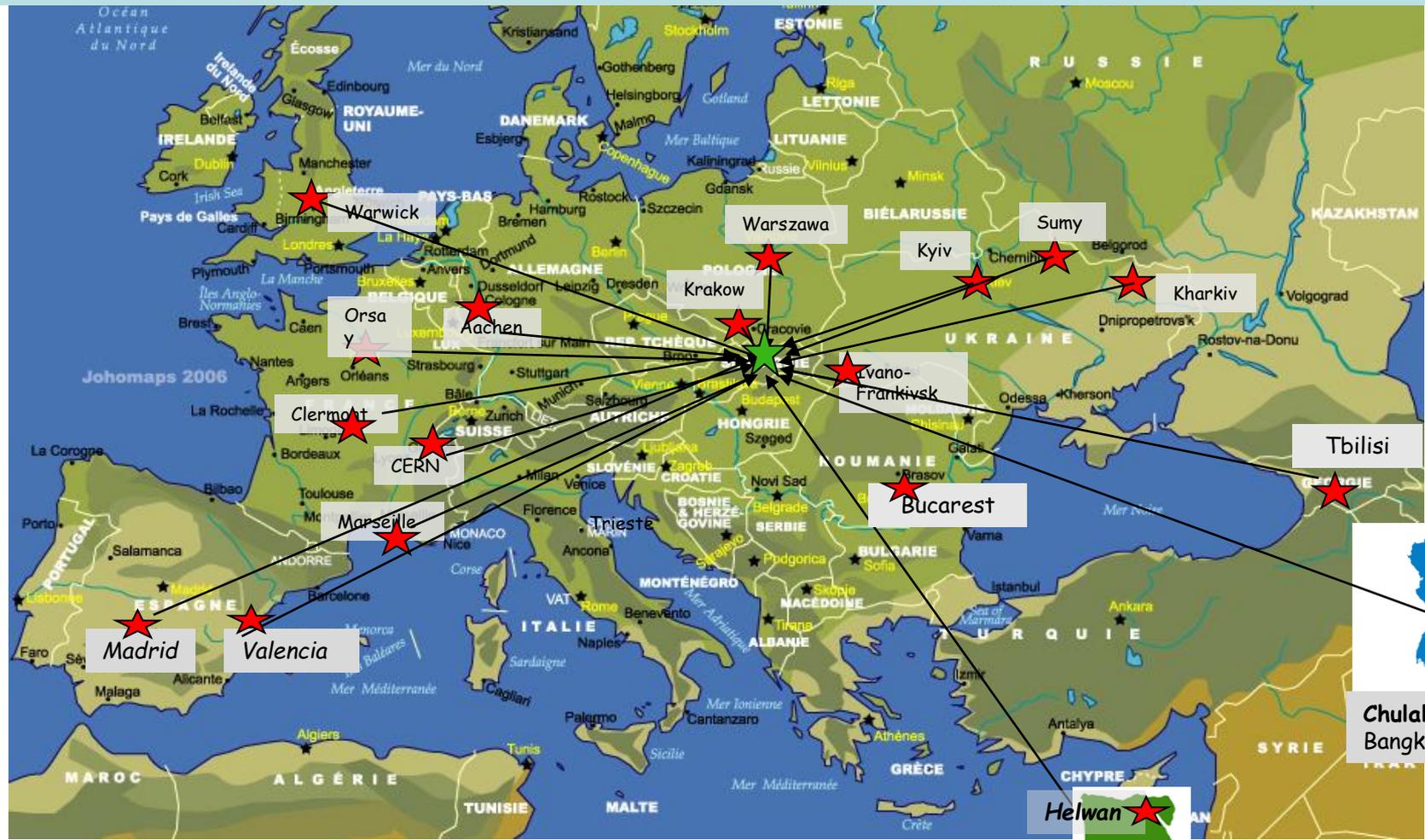


After COVID pandemic and Russia aggression to Ukraine we organised the school in 2023 and 2024 in Poland , here **close to the Ukrainian border.**





Aachen, Bangkok, Bucarest, CERN, Clermont-Ferrand, Helwan-Cairo, Kyiv, Kharkiv, Kosice, Krakow, Ivano-Frankivsk, Madrid, Marseille, Paris-Orsay, Sumy Tbilisi, Valencia, Warsaw, Warwick



**Chulalongkorn
Bangkok**



Trans-European School of High Energy Physics



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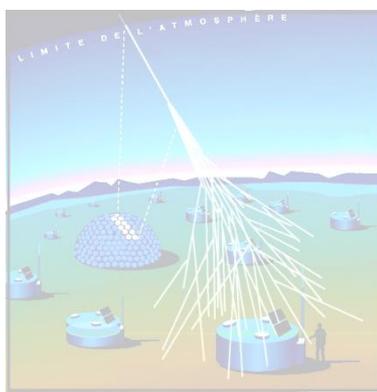
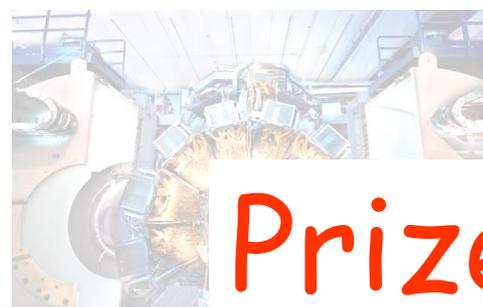
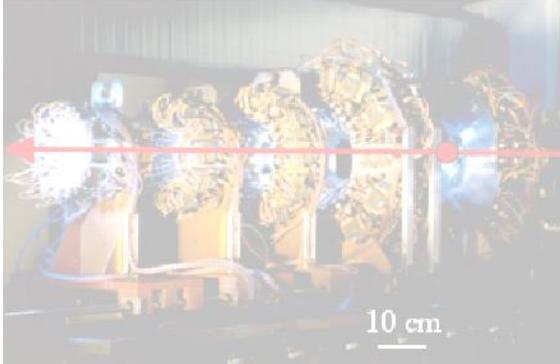
	11/7	12/7	13/7	14/7	15/7	16/7	17/7	18/7	19/7
09:00-10:00		Introduction	SM 2	Detector	Detectors 4	Detectors 5	Topical 2	Topical 3	Departure
10:00-11:00		SM 1	SM 3	SM tests	SM tests	Topical 1	Topical 2:	Topical 3	
Break									
11:30-12:30		SM	Accelerator	Detectors 3	Feynman diagrams	Topical 1	Topical 2	Topical 3	
12:30-13:30		Accelerators	Accelerators	Detector	Feynman diagrams	Topical 1	Top physics	Top physics	
Lunch									
14:30									Students conference
15:00-16:00		Neutrino	Neutrino	Neutrino	Excursion	Seminar 1	BSM		
16:00-17:00		Introduction to hands-on	Hands-on Team 2	Seminar 2		Hands-on Team 1	Seminar 3		
			Work with Profs Team 1		Work with Profs Team 2				
Break									
17:30-18:30		Hands-on Team 2	Hands-on Team 2	Hands-on Team 1	Excursion	Hands-on Team 1	Seminar 4	Students conference	
		Work with Profs Team 1	Work with Profs Team 1	Work with Profs Team 2		Work with Profs Team 2			
18:30-19:30		Hands-on Team 2	Hands-on Team 2	Hands-on Team 1	Excursion	Hands-on Team 1	Football	19:00-19:45 Summary	
		Work with Profs Team 1	Work with Profs Team 1	Work with Profs Team 2		Work with Profs Team 2			
Dinner						School dinner			
	Arrival								

- Lectures
- Lectures on Topical subjects
- Seminars
- Hand-on-Team sessions

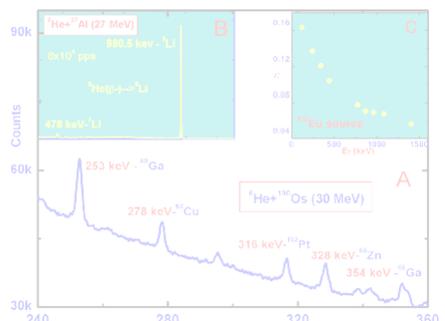
Work with professor to prepare the **Student Conference**

Lectures	
SM	Wolfgang Schäfer
SM tests	Stéphane Monteil
BSM	Serhii Cholak
Detectors	Giovanni Calderini/Maxim Titov
Feynman diagrams	Mariola Kłusek-Gawenda
Accelerators	Pascal Hermès
Neutrino	Ines Gil Botella
Top Physics	Stanislav Tokar
Hands-on	Rafał Staszewski, Arantza Oyanguren Campos, Olena Mezhenska, Dominik Babal
Seminars	
Seminar 1: Alice, H1	Lucia Tarasovicova
Seminar 2: AI	Arantza Oyanguren Campos
Seminar 3: P-ONE	Paweł Malecki
Seminar 4: ERL and the PERLE project	Alex Fomin
Lectures on topical subjects	
Topical 1: the revolution : tau and charm	Sergey Barsuk
Topical 2: Flavour Physics	Achille Stocchi
Topical 3: QCD	Valeriia Zhovkovska, Iwona Sputowska

Presentation of the professors !



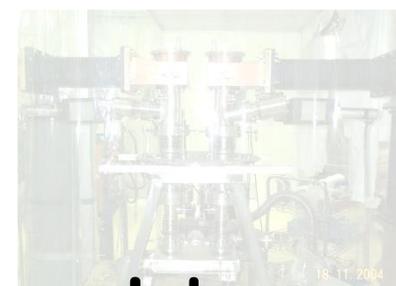
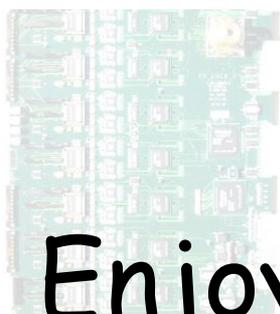
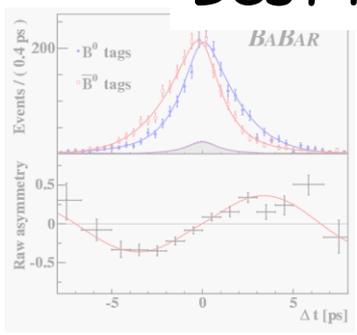
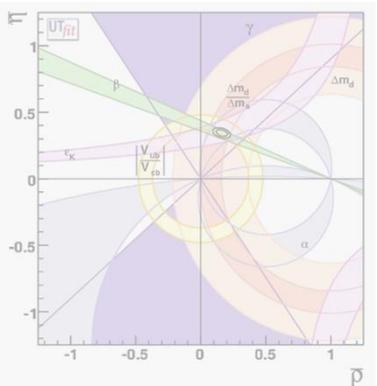
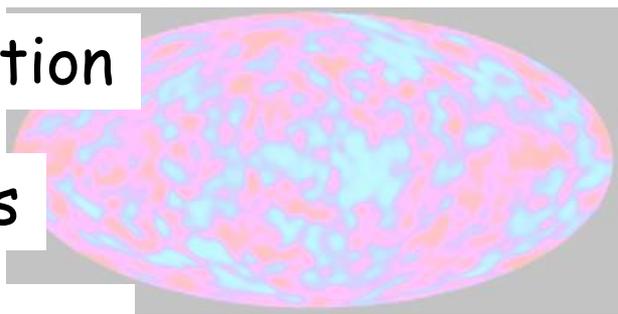
Prizes



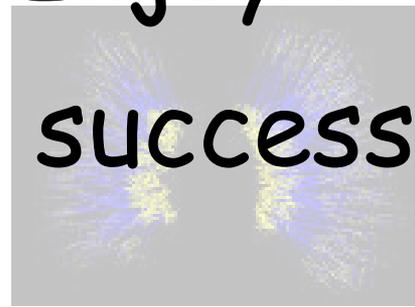
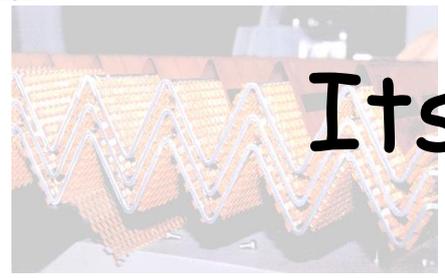
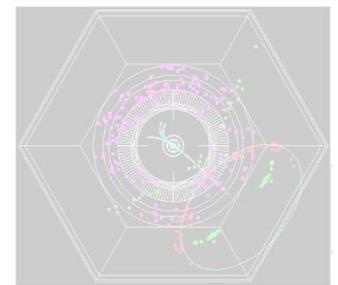
Best student presentation

Best student questions

Best lecture / Seminars...



Enjoy the school!



Its success relies on you

