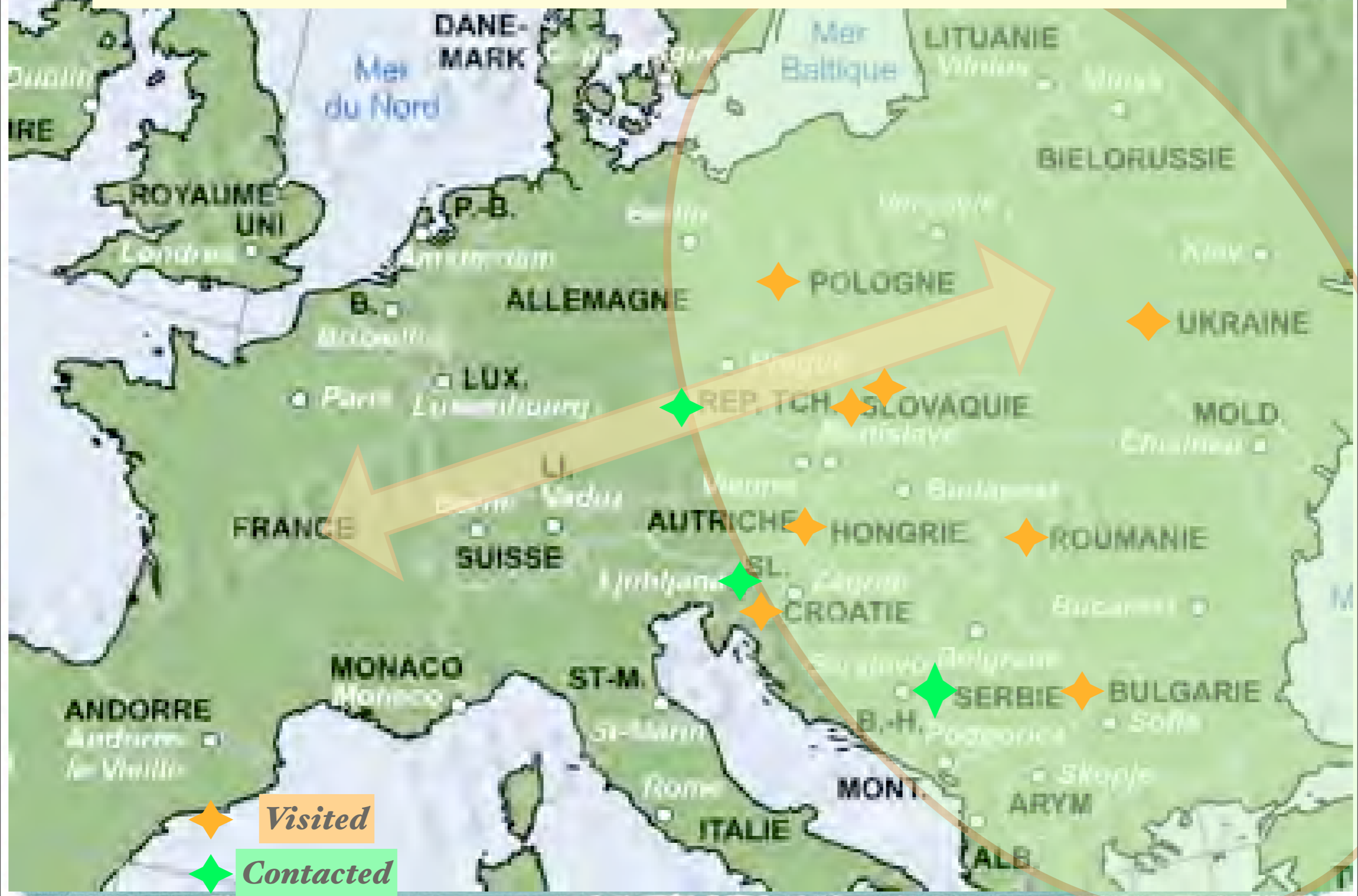


TRANS EUROPE INITIATIVE



◆ Visited
◆ Contacted

First steps towards TEI

- * **In 2007, IN2P3, thanks to the help of François Le Diberder, has supported the creation of a school of Physics in Ukraine.**
- * **This school, for students in the last Year of Master degree or in their first PhD Year, was devoted to provide high level courses in HEP and to create more links between East and West mainly oriented towards the new young generations.**
- * **The first edition of the school took place in Ukraine and was a nice success. About 31 students from East and Central Europe but also from Western countries attended to it.**
- * **Its 2008 edition will also take place in Ukraine, but from 2009, the school will become mobile.**
- * **The 2009 edition will be in Krakow (Poland).**
- * **The natural next step is to form a group which will coordinate the scientific and formation activities between France and Central Europe countries.**
- * **From there issued the “Trans Europ Initiative” mission.**

The Initiative

The next step is to coordinate the formation and research activities between CNRS/IN2P3 and Central Europe countries. For that purpose CNRS/IN2P3 is setting up a "Trans Europe Initiative" (TEI) which will explore the possibilities of cooperation agreements in HEP between CNRS/IN2P3 and the different countries from Central Europe.

Each country will be visited to evaluate the cooperation possibilities, in close cooperation, when it applies, with the Office of European affairs (CNRS/DAE), the Office of International Relations (CNRS/DRI), and the scientific and the French embassy.

The mission to coordinate the TEI is given to Ludwik DOBRZYNSKI who will form a group of CNRS/IN2P3 scientists, with at least one representative for each of the country to be considered. The group, under his leadership and the authority of the Deputy Director of CNRS/IN2P3 in charge of HEP, will explore the following two domains:

TEI mission and objectives

TEI has to explore the possibilities of cooperation agreements between IN2P3/CNRS, the different countries from Central Europe which will be visited and the scientific and university structures existing at the french embassies in these countries.

This mission will explore the following two domains:

1. High level education in particle physics

- By developing the interest, in the visited centers and universities, to send their best students to our physics school
- By proposing to the students to follow Master 2 courses in France, opening such the possibility to obtain a PhD support for them, the PhD being developed in co-supervision • by proposing to the students financial support provided by the french embassies for Master 2 or PhD projects in co-supervision.
- By proposing to the French embassies to provide financial support for the selected students

2. Scientific Research

The objective of the mission is also to find common interests between IN2P3 high energy teams and the local visited teams :

- *To participate to a GDRI based on the Physics at LHC*
- To join to experimental works in the HEP domains with French teams
- To consolidate of existing collaboration within LHC/ILC projects
- To share common tools like computing within GRID projects
- To develop in collaboration new instrumentation techniques for the particle detection and/or acceleration. Common R&D programs oriented to the SLHC and ILC projects will be favored.

Etat des lieux

● Pays visités (contacts très riches, site WEB en préparation)

- Ukraine (Décembre 2007 et Mars 2008))
- Pologne (Novembre 2007)
- Hongrie (Janvier 2008)
- Roumanie (Février 2008)
- Slovaquie (Mars 2008)
- Croatie (1st week of May)
- Bulgarie (2^d week of May)

● En préparation : Tchéquie (Juillet), Serbie, Slovenie Russie (??)

● **School od Physics : TESHEP(*) du 3 - 9 juillet 2008.**

<http://events.lal.in2p3.fr/TESchool/>

There are still few places for your PhD students.

(*) Trans Europe School of High Energie Physics)

Trans-European School of High Energy Physics

Buymerovka, Sumy region, Ukraine

July 3-9, 2008



Organization :

Morning : lectures

Afternoon : topical seminars, practical work, student sessions

Program and Organizing committee :

S. Barsuk, LAL/IN2P3-PSud

A. Horzela, INP

T. Lesyak, INP

M.-H. Schune, LAL/IN2P3-PSud

V. Yu. Storizhko, IAP

C. Bourge, LAL/IN2P3-PSud

I. N. Kadenko, Kyiv U.

O. B. Lysenko, IAP

V. Sharyy, IRFU

L. Dobrzynski, LLR/IN2P3

L. N. Lamonova, KINR

V. M. Pugatch, KINR

A. Stocchi, LAL/IN2P3-PSud

Topics :

Standard Model and beyond

Instrumentation for high energy physics

Neutrino physics

Astroparticle physics

Heavy flavours and CP violation

Data analysis technique

Web page : <http://events.lal.in2p3.fr/TESchool/>
Contact : TESchool@lal.in2p3.fr





Trans-European School of High Energy Physics

Buymerovka, Sumy region, Ukraine
July 3-9, 2008

Tentative
Program

Lectures Topical Seminars
and Students presentations

Registration
and fees

Participants



Location

Practical information
for travel

Poster

Photos gallery

The Trans-European School of High Energy Physics
will be held in Buymerovka in the Sumy region of Ukraine from July 3rd to July 9th, 2008.



Program & Organizing committee

S. Barsuk (LAL)
C. Bourge (LAL)
L. Dobrzynski (LLR)

A. Horzela (INP)
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Trans-European School of High Energy Physics

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Lectures	Professor's name	Allocated time (in units of 50 minutes + 5 minutes questions)
Standard Model and beyond	Sébastien Descotes-Genon	5
Detectors for HEP	Laurent Serin	5
Neutrino physics	Marco Zito	3
Heavy quark	Marie-Hélène Schune	3
Astroparticle physics	TBD	3
Tools for data analysis	Viatcheslav Sharyy	2 + Practical work 2 hours + 1/2 3 hours

The topical seminars are similar to "traditional" seminars presented at our research laboratories. They will present state of the art subjects to the students in a pedagogical way.

Seminars	Professor's name	
Interaction of nuclear environment (HERA-B/CBM/Kiev)	Valery Pugatch	Seminar 1
New ideas for lepton colliders (SuperB/ILC)	TBD	Seminar 2
B-factories	Tadeusz Lesiak	Seminar 3
Higgs search - legacy from LEP and Tevatron searches to LHC discovery	Ivica Puljak	Seminar 4
Beyond SM searches at LHC	Piotr Zalewski/Jan Krolikowski	Seminar 5
Modern cosmology and the problem of dark energy and dark matter	P.I. Fomin	Seminar 6
Silicon vertex detectors and related microelectronics	Adam Czermak	Seminar 7
Calorimetry for future detectors	Sergey Barsuk	Seminar 8
News/highlights on particle physics in the last year	Stephane Monteil	Seminar 9
QCD highlights	Michael Schmelling	Seminar 10



The students should prepare a 5 minutes presentation on a subject they are currently working on or are planning to work on. They should come to the school with the material needed (at least on paper). Sessions are allocated for work with the teachers to prepare the presentation.



Trans-European School of High Energy Physics

Buymerovka, Sumy region, Ukraine

July 3-9, 2008

Tentative Program	Lectures Topical Seminars and Students presentations			Registration and fees	Participants		
	Location	Practical information for travel		Poster	Photos gallery		
	Thursday July 3rd	Friday July 4th	Saturday July 5th	Sunday July 6th	Monday July 7th	Tuesday July 8th	Wednesday July 9th
08h30-09h30	Presentation	SM and beyond	SM and beyond		SM and beyond	Heavy quarks	Heavy quarks
09h30-10h30	SM and beyond	SM and beyond	Heavy quarks		Neutrino physics	Neutrino physics	Neutrino physics
10h30-11h00	Break	Break	Break		Break	Break	Break
11h00-12h00	Detectors for HEP	Detectors for HEP	Detectors for HEP		Practical work	Detectors for HEP	Astroparticle physics
12h00-13h00	Detectors for HEP	Tools for data analysis	Tools for data analysis		Practical work	Astroparticle physics	Astroparticle physics
13h00-14h30	Lunch	Lunch	Lunch		Lunch	Lunch	Lunch
14h30-15h45	Seminar 1	Seminar 6	Seminar 2		Seminar 3	Seminar 9	Students presentations
15h45-17h00	Seminar 7	Seminar 8	Seminar 4		Seminar 5	Students presentations	
17h00-17h15	Break	Break	Break		Break	Break	Break
17h15-18h45	Students work with teachers on presentation	Practical work / Students work with teachers on presentation	Practical work / Students work with teachers on presentation		Students presentations	Students presentations	Conclusions

Topical seminar: warning seminar should last for 1h and 15 minutes for questions

Lectures : warning the lecture should last for 50 min (the remaining time will be taken by questions)

Students presentations (5 minutes presentation + 2 minutes questions)



Trans-European School of High Energy Physics

Buymerovka, Sumy region, Ukraine
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The resort is located on the coast of picturesque river Vorskla
in the centennial pine forest near to the city of Okhtyrka, in Sumy area.

- **Coordinates of the Hotel:**

Buymerovka Pine And Spa Resort 1936
1a Kosiora Str., Buymerovka, Akhtyrka
Area
Sumy Region, Ukraine, 42761
Tel. Hotel: +38 (04423) 63515
WWW: <http://www.buymerovka.com.ua/>



MS/FLD/SV/08.0156

Paris, le 09 avril 2008

Trans Europe Initiative (TEI) mission

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The next step is to coordinate the formation and research activities between CNRS/IN2P3 and Central Europe countries. For that purpose CNRS/IN2P3 is setting up a "Trans Europe Initiative" (TEI) which will explore the possibilities of cooperation agreements in HEP between CNRS/IN2P3 and the different countries from Central Europe.

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- By developing the interest, in the visited centers and universities, to send their best students to the CNRS/IN2P3 LHC physics school,
- By proposing to the best students to follow Master 2 courses in France, and hence opening the possibility to obtain a PhD support for them, the PhD being developed in co-supervision,
- By proposing to the French embassies to provide financial support for the selected students.

2) Scientific Research.

- Common data analysis works on ongoing experiments,
- Consolidation of existing collaboration within LHC-ILC projects,
- Sharing of common tools like computing within GRID projects,
- Developing in collaboration new instrumentation techniques for the particle detection and/or acceleration. Common R&D programs oriented to the SLHC, ILC (CLIC) and superb Factory projects will be favored.



Michel SPIRO
Directeur de l'IN2P3

Copie : François Le Diberder, Directeur Adjoint Scientifique en charge de la physique des particules