

8th MOSCOW SCHOOL OF PHYSICS (33rd ITEP WINTER SCHOOL OF PHYSICS)

Moscow, Russia

February 22 - March 2 , 2005

BULLETIN NO. 2

33rd ITEP Winter School

The annual ITEP Winter School of Physics has a long tradition starting from the year 1973. The School usually attracted many physicists from leading research centers and universities of Russia. The School is designed not only for the educational purposes but also for extension of communications between young physicists as well as for acquaintance of foreign participants with Russian science and culture. Having regard to the importance of the School, Moscow Government Premier has given the ITEP Winter School of Physics a status of the **Moscow School**.

The program of the ITEP Winter School in the year 2005 will cover the following areas:

- Hadron Interactions
- SUSY phenomenology
- News in Neutrino Physics
- Higgs
- Hot Topics in Cosmology and Astrophysics

The School Site and Date

The School will be held from February 22 till March 2 in a hotel "Zvenigorod". The hotel is situated in a picturesque place near Moscow.

Arrival in Moscow

It is anticipated that all participants will arrive in Moscow by air on 21th of February. They will be met by the Organizing Committee representatives at the International Airports: Scheremet;evo (terminal 2) or Domodedovo and taken to the ITEP guest-house by bus (or directly to the School site, depending on the arrival date/time). The meeting place will be near the custom-house gates (backup place in the case of crowd: the information board at the center of arrival area of the airport). The representative will have hold of the table "ITEP". In a case of trouble to find him/her please call 103-28-64 (Vladimir Rusinov)

Transportation to the school site

At 10:00 in the morning on February 22 all participants will be brought to the School site by bus from the ITEP guest-house. The meeting point is near ITEP guest house (Profsouznaia str,15). In order to find information how to get there please look at the reference on www page given below.

Note that there is a good WWW-guide at <http://www.itep.ru/en?toget> with a detailed description of the way from the Sheremet'ev-II International airport to ITEP and the ITEP guest house (including maps of the Sheremet'ev-II airport, Moscow metro, ITEP etc.).

How to get to the school site by public transport

The school will be held at "Sanatorii Zvenigorod" (www.san-zven.ru). It can be reached from sub-way station "Belorusskaia". After getting out of the sub-way go to "Belorusskaya" railway station. Use railway to get to the station "Zvenigorod". Then walk 500 meters to "Sanatorii Zvenigorod".

The School Language and Proceedings

The School working language is English. *Proceedings of the 33rd ITEP Winter School 2005* will be published by Taylor & Francis Group.

Your contribution to the School

Special evening sessions will be devoted to the short presentations of participants' scientific results. Those participants who intend to make a talk are requested to submit the title to the Organizing Committee. It should be in a form of brief (20 minutes) report.

Social Program

Midday hours before lunch are dedicated for sports and any other sorts of activity. Ski rent is available for free. It is important to note that the ski are wooden, which is probably OK for amateur skiers, but for advanced ones we advise to take their favorite equipment. Water pool is also available. The School social program also includes concerts of classical and modern Russian music *etc.* After the school all participants are invited to the bus tour around Moscow in order to get acquainted with its architectural monuments and history.

Lodging Information

During the school listeners will live in double rooms. After the School participants are invited to stay for free (except meals) in the ITEP guest-house during 2-3 days for closer acquaintance with Moscow sightseeing. The address of the ITEP guest-house is Profsoyuznaya street, 15, near "Profsoyuznaya" sub-way station.

Climate

Moscow climate is typically continental. Weather in the end of February fits well for various winter sports. It is generally sunny. The average temperature is about -5° C though sudden drops of temperature could be expected, so we advise you to bring proper warm clothes.

Currency and credit cards

Money exchange (preferably Euro and US dollars) is possible in various exchange offices. We recommend you to have some cash since credit cards and traveller checks are not widely accepted in Moscow at the time being.

For further information please contact Organizing committee.

E-mail
WWW

"ws2005@itep.ru"
<http://www.itep.ru/ws2005>

post address*

Institute of Theoretical and Experimental Physics (ITEP),
B.Chermushkinskaja ul. 25, 117259 Moscow, Russia.

* Please do not use ordinary mail. For quick communications take advantages of e-mail or fax.

School Agenda

February 22, Tuesday

- 10⁰⁰ – 11⁰⁰ Transportation to the School site
- 14⁰⁰ – 14⁵⁵ *Lunch*
- 15³⁰ – 16³⁰ A.Gorsky (ITEP)
"Exactly solvable models and QCD"
- 16³⁰ – 17⁰⁰ *Coffee Break*
- 17⁰⁰ – 18⁰⁰ S.Blinnikov
"Supernovae and gamma ray bursts"
- 18¹⁵ – 19¹⁵ M.Danilov (ITEP)
"Pentaquarks (experiment)"
- 19¹⁵ – 20⁰⁰ *Dinner*

February 23, Wednesday

- 8³⁰ – 8⁵⁵ *Breakfast*
- 9⁰⁰ – 10⁰⁰ D.Kazakov
"Beyond the Standard Model"
- 10⁰⁰ – 10³⁰ *Coffee Break*
- 10³⁰ – 11³⁰ M.Danilov (ITEP)
"Pentaquarks (experiment)"
- 14⁰⁰ – 15⁰⁰ *Lunch*
- 15³⁰ – 16³⁰ A.Gorsky(ITEP)
"Exactly solvable models and QCD"
- 16³⁰ – 17⁰⁰ *Coffee Break*
- 17⁰⁰ – 18⁰⁰ S.Blinnikov
"Supernovae and gamma ray bursts"
- 18¹⁵ – 19¹⁵ V.Lukash
"CMBA and around"
- 19¹⁵ – 20⁰⁰ *Dinner*

Thursday 24, Friday

- 8³⁰ – 8⁵⁵ *Breakfast*
- 9⁰⁰ – 10⁰⁰ D.Kazakov
"Beyond the Standard Model"
- 10⁰⁰ – 10³⁰ *Coffee Break*
- 10³⁰ – 11³⁰ W.de Boer
"Indirect Evidence for WIMP Dark Matter"
- 14⁰⁰ – 15⁰⁰ *Lunch*
- 15³⁰ – 16³⁰ A.Vainshtein
"Massive gravity"
- 16³⁰ – 17⁰⁰ *Coffee Break*
- 17⁰⁰ – 18⁰⁰ V.Lukash
"CMB and around"
- 18¹⁵ – 19¹⁵ L.B.Okun
"Quantum Mechanics of neutrino oscillations"
- 19¹⁵ – 20⁰⁰ *Dinner*

February 25, Friday

- 8³⁰ – 8⁵⁵ *Breakfast*
- 9⁰⁰ – 10⁰⁰ D.Kazakov
"Beyond the Standard Model"
- 10⁰⁰ – 10³⁰ *Coffee Break*
- 10³⁰ – 11³⁰ W.de Boer
"Indirect Evidence for WIMP Dark Matter"
- 14⁰⁰ – 15⁰⁰ *Lunch*
- 15³⁰ – 16³⁰ A.Vainshtein
"Massive gravity"
- 16³⁰ – 17⁰⁰ *Coffee Break*
- 17⁰⁰ – 18⁰⁰ J.M.Frere
"Leptogenesis"
- 18¹⁵ – 19¹⁵ L.B.Okun
"Quantum Mechanics of neutrino oscillations"
- 19¹⁵ – 20⁰⁰ *Dinner*

February 26, Saturday

- 8³⁰ – 8⁵⁵ *Breakfast*
- 9⁰⁰ – 10⁰⁰ A.Nikitenko
"Higgs Physics at LHC"
- 10⁰⁰ – 10³⁰ *Coffee Break*
- 10³⁰ – 11³⁰ A.Nikitenko
"Higgs Physics at LHC"
- 11³⁰ – 14⁰⁰ *Ski Competition*
- 14⁰⁰ – 15⁰⁰ *Lunch*
- 15³⁰ – 16³⁰ M.Voloshin
"Molecular Charmonium"
- 16³⁰ – 17⁰⁰ *Coffee Break*
- 17⁰⁰ – 18⁰⁰ J.M.Frere
"Leptogenesis"
- 18¹⁵ – 19¹⁵ A.Kozlov
"Physical results obtained at Kamland"
- 19¹⁵ – 20⁰⁰ *Dinner*

February 27, Sunday

- 10⁰⁰ – 13⁰⁰ Excursion
- 14⁰⁰ – 15⁰⁰ *Lunch*
- 19⁰⁰ – 20⁰⁰ *Dinner*
- 20⁰⁰ – 22⁰⁰ Bonfire

February 28, Monday

- 8³⁰ – 8⁵⁵ *Breakfast*
- 9⁰⁰ – 10⁰⁰ M.Maltoni
"Neutrino oscillations"
- 10⁰⁰ – 10³⁰ *Coffee Break*
- 10³⁰ – 11³⁰ M.Maltoni
"Neutrino oscillations"
- 14⁰⁰ – 15⁰⁰ *Lunch*
- 15³⁰ – 16³⁰ B.Kerbikov
"Unusual condensates in atomic and quark systems"
- 16³⁰ – 17⁰⁰ *Coffee Break*
- 17⁰⁰ – 18⁰⁰ B.Kerbikov
"Unusual condensates in atomic and quark systems"
- 18¹⁵ – 19¹⁵ Short Presentations
- 19¹⁵ – 20⁰⁰ *Dinner*

March 1, Tuesday

- 8³⁰ – 8⁵⁵ *Breakfast*
- 9¹⁵ – 10¹⁵ V.Obraztsov
"Kaon physics: status and perspectives"
- 10¹⁵ – 10³⁰ *Coffee Break*
- 10³⁰ – 11³⁰ V.Obraztsov
"Kaon physics: status and perspectives"
- 14⁰⁰ – 15⁰⁰ *Lunch*
- 15³⁰ – 16³⁰ A.Kaidalov
"Diffractive production of particles: from hadrons to Higgs bosons"
- 16³⁰ – 17⁰⁰ *Coffee Break*
- 17⁰⁰ – 18⁰⁰ V.Zakharov
"Confinement, after 30 years"
- 18¹⁵ – 19¹⁵ Short Presentations
- 19¹⁵ – 20⁰⁰ *Dinner*

March 2, Wednesday

8³⁰ – 8⁵⁵ *Breakfast*

9⁰⁰ – 10⁰⁰ A.Kaidalov
"Diffractive production of particles: from hadrons to Higgs bosons"

10⁰⁰ – 10³⁰ *Coffee Break*

10³⁰ – 11³⁰ V.Zakharov
"Confinement, after 30 years"

12⁰⁰ *Departure*