"Asymptotic Combinatorics with applications to mathematical Physics"-

NATO Advance Study Institute

European Summer School - 2001 in Russia

2nd announcement

Dear colleague,
We are happy to inform you that you are accepted as lecturer (or student) of **NATO ASI European Summer School - 2001 in Russia** "Asymptotic Combinatorics with applications to mathematical Physics" which will be since 9.7 till 22.7 in Euler International Mathematical Institute
(St.Petersburg, Pesochnaya naberezhnaya, 10).
You are welcome!

1. **Scientific program**

Main lectures:
Brezin E. (ENS, France) An introduction to matrix models
Deift P. (Upenn, USA) Riemann-Hilbert Problems
Kazakov V. (ENS, France) Matrix quantum mechanics and statistical physics on planar graphs
Kontsevich M. (IHES, France) Mirror symmetry
Okounkov A. (UCB, USA) Combinatorics and moduli spaces of curves
Vershik A. (POMI, Russia) Asymptotic combinatorics as a theory of representation

Lectures or seminars:

Biane Ph. (ENS, France) Asymptotics of representations of symmetric groups, random matrices and free cumulants
Borodin A. (Upenn, USA) Application of the Riemann-Hilbert problem in asymptotic representation theory
Bozejko M. (University of Wroclaw) Positive definite functions on Coxeter groups and second quantization of Young-Baxter type
Duplantier B. TBA
Hora A. An algebraic and combinatorial approach to central limit theorems related to discrete Laplacians
Jacobsen J.L. A transfer matrix approach to the enumeration of knots or coloured links
Kenyon R. (University Paris-11, France) Random maps from Z^2 to Z
Korepin V. Six vertex model with domain wall boundary conditions
Kostov I. TBA
Lascoux A. (University Marne-la-Valiee, France) The combinatorics of dimension of representations of the symmetric and linear group
Malyshev V. (INRIA, France) Asymptotic number of maps on surfaces: combinatorial approach
Nazarov M. (University of York, UK) On the Frobenius rank of a skew Young diagram
Neretin Yu. (Independent University, Russia) Poisson processes and polymorphisms
Okada S. TBA
Ol'shanski G. (IPPI, Russia) Introduction to asymptotic representation theory
Pastur L Unitary Invariant Ensembles of Random Matrices:an Introduction
Soshnikov A. Combinatorial Methods in Random matrix Theory
Speicher R. (University of Heidelberg, Germany) Free probability and non-crossing partitions
Zinn-Justin P. TBA

Round Table:
Problems of the theory of random matrices

Problem sessions:
Asymptotics of Young tableaux and random configurations;
Theory of integrable operators and determinant processes

Poster session for students

2. **Participants**
Approximately 80 students from Belarus, France, Poland, Russia, Ukraine, UK, USA.

3. Travel expenses
We are able to support at least partially the travel expenses for participants from Russia, fSU and East Europe. Participants from US and France will be supported by AMS and CNRS (detail information will be later)

4. Living expenses
We'll order cafeteria near the institute and will pay for breakfast, lunch and dinner in it for all participants. But we can't pay for transport expenses which are very cheap.

5. Accommodation
The situation with hotels has changed. We should like to inform you about available types of accommodation.
a) Dormitory ($10-15 per day);
b) Hotel ($60);
c) More comfortable hotel ($100) -for those who prefer.
You must choose one of those possibilities and inform us as soon as possible. We hope to support accommodation of students in dormitory.

6. **Conference fee**
All students including PD-students and postdocs will be free of paying the conference fee.

7.Cultural program
We intend to organize excursions over St. Petersburg, to suburbs of St. Petersburg and excursion on boat over Neva.

8. Visas and invitations
We should like to inform you about some bureaucratic details.

A) Please let us know if you need the invitation of Euler Mathematical institute. We suppose you may need this invitation in your university etc.

B) In order to visit Russia you need visa. To get it you should:

1) Fill the registration form in **our web-page http://www.pdmi.ras.ru/EIMI/2001/emschool/index.html** (if you didn't fill it yet);

2) Send us by fax the copy of your passport (if you didn't send before);

3) Receive our official invitation on behalf of the Russian Ministry of Foreign Affairs.

Please, note that neither this announcement nor the invitation of the Euler Institute are not appropriate for applying visa!

4) Apply for visa in Russian Consulate.

Note that the consulate must be in the city which is mentioned in the registration form.

5) The invitation will be given for period of 1 month (approximately July, 1 -- July, 31).

But in the consulate they will ask you to fill a request form where you have to indicate period of your visit in Russia. You may fill this entry up to your own circumstances.

If you have questions or your plans change, please, inform us as soon as possible.
Contact e-mail: emschool@pdmi.ras.ru

We hope to see you at St. Petersburg.
Organization Committee.
St.Petersburg 06.04.01.