



The Abdus Salam  
International Centre for Theoretical Physics



ADVANCED SCHOOL AND CONFERENCE ON  
STATISTICS AND APPLIED PROBABILITY IN  
LIFE SCIENCES

24 September - 12 October 2007

ICTP, Miramare - Trieste, Italy

The Abdus Salam International Centre for Theoretical Physics (ICTP) is organizing an "Advanced School and Conference on Statistics and Applied Probability in Life Sciences", to be held from 24 September to 12 October, 2007 in Trieste, Italy. The aim of this activity is to introduce young mathematicians to statistics and applied probability in life sciences and other fields. Some familiarity with basic statistics and probability theory are assumed.

**The first and second week (24 September - 5 October)** will be an advanced school: eight mini-courses of high level on statistics and applied probability in life sciences and other fields. There will be seminars and training activities for the participants. Some leading and famous scholars will present mini-courses.

**The third week (8 October - 12 October)** will be an international conference on statistics and applied probability in life sciences and other fields. In addition to plenary lectures given by leading and famous scholars, there will also be sessions where participants can present their work.

### Main Topics

- **Population and disease models:** Andrew Barbour (Universität Zürich-Irchel, Switzerland)
- **Poisson approximation and applications:** Louis Chen (National University of Singapore, Singapore)
- **Branching Processes:** Peter Jagers (Chalmers University of Technology, Sweden)
- **Stochastic modelling of biomolecular phenomena:** Minping Qian (Peking University, China)
- **Longitudinal and functional data analysis:** Anestis Antoniadis (Université Joseph Fourier, France)
- **Bioinformatics:** Heping Zhang (Yale University, USA)
- **Missing data:** Xiaoli Meng (Harvard University, USA)
- **Generalized Linear Models:** Peter McCullagh (University of Chicago, USA)
- **Survival Analysis:** Ian McKeague (Columbia University, USA)

### Participation

Mathematicians from all countries that are members of the UN, UNESCO or IAEA may attend the School. Although the main purpose of the ICTP is to help researchers from developing nations through a programme of training activities within the framework of international cooperation, students and scientists from developed countries are also welcome to attend. As the activity will be conducted in English, participants must have an adequate working knowledge of that language.

**As a rule, travel and subsistence expenses of the participants are borne by their home institutions. However, limited funds are available for some participants from, and working in, developing countries, not more than 45 years of age, to be selected by the Organizers.** Such financial support is available only for those who attend the entire activity. Every effort should be made by candidates to secure support for their fare (or at least half-fare) from their home country. There is no registration fee to attend the School.

**The closing date for the receipt of requests for participation is 20 May 2007**

The **Request for Participation Form** is obtainable from the ICTP WWW Server:  
<http://agenda.ictp.it/smr.php?1863>

The completed Request Form should be signed and sent to:

the Abdus Salam International Centre for Theoretical Physics  
"Advanced School and Conference on Statistics and Applied Probability in Life Sciences"  
(SMR 1863, c/o Ms. K. Mabilo)  
Strada Costiera 11  
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E-mail: [smr1863@ictp.it](mailto:smr1863@ictp.it) (please save and send file attachments in PDF)

ICTP Home Page: <http://www.ictp.it/>

Trieste, October 2006

### DIRECTORS

JIANQING FAN (USA)

PETER JAGERS (Sweden)

ZHI-MING MA (China)

XIAOLI MENG (USA)

### LOCAL ORGANIZER

JIAYU LI (Italy)

### INVITED SPEAKERS

will include:

Anestis Antoniadis (France)  
Andrew Barbour (Switzerland)  
Louis Chen (Singapore)  
Peter Donnelly (UK)\*  
Arnoldo Frigessi (Norway)\*  
Theo Gasser (Switzerland)  
Irene Gijbels (Belgium)  
Peter Hall (Australia)  
Christine Jacob (France)  
Jürgen Jost (Germany)  
Peter McCullagh (USA)  
Ian McKeague (USA)  
Mary Sara McPeck (USA)  
Hans Mueller (USA)  
Minping Qian (China)  
Serik Sagitov (Sweden)  
Vladimir Vatutin (Russia)  
Jane-Ling Wang (USA)  
Ping Yan (Canada)  
Zhiliang Ying (USA)  
Heping Zhang (USA)

\* to be confirmed

SECRETARIAT in China:  
MIN CHEN  
FUZHOU GONG  
Chinese Academy of Sciences, Beijing, China

SECRETARIAT at ICTP:  
MABILO Koutou

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**20 MAY 2007**