

Fifth Minisymposium on

# Stochastic Methods in Financial Models

Special Session of the Seminar on Stochastic Analysis, Random Fields and Applications

June 2-3, 2005

Centro Stefano Franscini, Ascona, Switzerland

Financial modeling is a field that attracts researchers and practitioners from different areas of stochastic analysis, scientific computation, statistics, physics and finance. Models involving fractional processes, stable processes (or other jump processes) have been introduced to better describe the evolution of financial or insurance assets and to include the possibility of extremal events. Infinite dimensional processes and stochastic partial differential equations have become required tools for describing the evolution of interest rates. Techniques such as the enlargement of filtrations have been applied to modeling default and credit risk and to the detection of insider trading. For numerical simulations, tools such as refined Monte-Carlo methods and Malliavin calculus have become important. The minisymposium aims at presenting the state of the art in these topics and will also be an occasion for interaction between practitioners and members of the academic community.

## Among the speakers

N. Bouleau (ENPC Paris)

R. Carmona (Princeton)

R. Cont (Polytechnique Paris)

H. Geman (ESSEC & Dauphine)

D. Madan (Maryland)

P. Malliavin (Paris)

M. Musiela (BNP-Paribas)

B. Øksendal (Oslo)

M. Pratelli (Pisa)

W. Runggaldier (Padova)

W. Schmidt (HfB Frankfurt)

M. Schweizer (ETH-Zürich)

## Organizers

Robert Dalang

EPF-Lausanne

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Université de Nancy II

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Université de Paris 13

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*For further information, please contact the secretary of the conference:*

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