**Weierstrass Institute for
Applied Analysis and Stochastics**

Leibniz Association

1st **Leibniz MMS Days – Opening**

Volker John

Networking in the Leibniz Association

- Leibniz Research Alliances
- Leibniz Networks
    - have a particular thematic focus
    - central contact point for their research field, not only within the Leibniz Association but also beyond
    - located at the intersection between other networks
    - collating and mediating information
    - assisting in the search for project partners and channeling inquiries
    - joint activities and events complete the profile
- Leibniz ScienceCampi (cooperation with universities)

Leibniz Network MMS

- Leibniz Network "Mathematical Modeling and Simulation (MMS)"
- initiated in 2012 by WIAS
- inquiry at 39 Leibniz institutes $\Longrightarrow$ scientific clusters
  - Parametric Statistics – Data Mining, Test Design, R
  - Stochastic Processes/Monte Carlo Simulation
  - MMS for flows in porous media
  - Systems of ordinary differential equations and dynamical systems
  - MMS in Multiphysics systems – Climate/Atmosphere
  - MMS in material sciences (including molecular dynamics, elasticity, self-consistent field equations)
  - MMS in micro-, nano- and optoelectronics
- members: 24 institutes from all Sections of Leibniz Association

- MMS in Multiphysics systems – Climate/Atmosphere: workshop 12.12.2013
  - 8 groups participated
  - however: topics for short-term collaborations could not be identified

1st **Leibniz MMS Days**

- joint event
- scientific part
  - 27 talks
  - poster session (tonight)
- network part: identify common interests (Thursday afternoon)
  - 2 plenary and 4 parallel round table discussions
  - problems of common interest
    - handling of research data
    - research software engineering
  - scientific topics with broad interest
    - statistics of stochastic processes
    - scientific software
    - consistent modeling
    - visualization
  - report and final discussion: Friday 11:00

1st **Leibniz MMS Days (cont.)**

- platform for discussion about Leibniz Network MMS
  - What are the expectations to the network?
  - How to organize the network (better)?
  - Are there other important topics for network discussions?
  - Are current clusters still useful? Other substructures?
  - Next event(s)? Like this time or smaller?