GPSRS Internal workshop, Aarhus

Monday 8 April 2013

**Invited lecture**
09:00 – 10:00 **Francois Bacelli** (Paris): A class of spatial birth and death processes related to the random connection model

**Tessellations and hard-core particle systems**
10:00 – 10:45 **Günter Last** (Karlsruhe): Introduction into some recent developments on random tessellations
10:45 – 11:00 Coffee
11:00 – 11:30 **Eva Ochsenreither** (Karlsruhe): Second order properties of percolation on tessellations
11:30 – 12:15 **Gerd Schröder-Turk** (Erlangen): Physical Foams and mathematical random tessellation models
12:15 – 12:30 Discussion of the project for the planned second stage of the Research Unit
12:30 Lunch

**Tensor valuations**
14:00 – 14:30 **René Wittmann** (Erlangen): Mixed measures for density functional theories
14:30 – 15:30 **Daniel Hug** (Karlsruhe): Some new results for tensor valuations
15:30 – 16:00 Coffee
16:00 – 16:45 **Julia Hörmann** (Karlsruhe): Densities of tensor valuations for inhomogeneous Boolean model
16:45 – 17:00 Discussion of the project for the planned second stage of the Research Unit
17:00 – 17:30 Overall Discussion of the two projects *(In room Koll D)*
Tuesday 9 April 2013

Image analysis and spatial statistics
09:00 – 09:45 Michael Klatt (Erlangen): Karambola and Papaya: a practical demonstration of the Erlangen Minkowski tensor software
09:45 – 10:15 Markus Kiderlen (Aarhus): Digital stereology
10:15 – 10:30 Coffee
10:30 – 11:00 Discussion of the projects for the planned second stage of the Research Unit

Random fields and percolation
11:00 – 11:30 Eva B. Vedel Jensen (Aarhus): Lévy random fields
11:30 – 12:00 Günter Last (Karlsruhe): Some analytic properties of the infinite cluster of a Boolean model
12:00 Lunch

14:00 – 15:00 Discussion of the project for the planned second stage of the Research Unit
15:00 – Excursion

Workshop dinner

Wednesday 10 April 2013

Boolean models
09:00 – 09:45 Daniel Hug (Karlsruhe): Second order properties of the Boolean model
09:45 – 10:00 Coffee
10:00 – 10:45 Klaus Mecke (Erlangen): Percolation and anisotropic Boolean models
10:45 – 11:00 Discussion of the project for the planned second stage of the Research Unit

11:00 – 12.00 Concluding strategic discussion

12:00 Lunch

All lectures take place in the Department of Mathematics, Building 1531, room 219 (Aud. D4) Aarhus University.