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 Hörrmann** (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.