Weierstraß-Institut für
Angewandte Analysis und
Stochastik

DFG – NWO
Dutch–German Research
Group

Workshop
Random Spatial Models from Physics and Biology
March 16 – 19, 2005

Weierstraß Institut für Angewandte Analysis und Stochastik
Mohrenstr. 39, 10117 Berlin
Erhard–Schmidt–Hörsaal (ground floor)

P R O G R A M

Wednesday, March 16

09.00		R E G I S T R A T I O N
10.00		O P E N I N G
10.15 – 11.15	*A. Etheridge*	Evolution in spatially continuous problems
11.15		C O F F E E B R E A K
11.30 – 12.30	*B. Griffiths*	Importance sampling on coalecent histories in subdivided population models
12.30		L U N C H B R E A K
14.30 – 15.15	*R. Sun*	Renormalization analysis of interacting diffusions
15.15 – 16.00	*N. Champagnat*	A microscopic interpretation for a Markov jump process of evolution
16.00		C O F F E E B R E A K
16.30 – 17.30	*A. Wakolbinger*	Hitchhikers, free-riders and early recombinants: the ancestral partition in a selective sweep

T H U R S D A Y , March 17

09.30 – 10.30	*S. Méléard*	Stochastic individual models for spatially structured populations with adaptive evolution
10.30		C O F F E E B R E A K
11.00 – 12.00	*W. Stephan*	Population Genetics of Adaptation
12.00		L U N C H B R E A K
14.30 – 15.15	*W. Angerer*	On limit laws for two-type branching processes
15.15 – 16.00	*P. Pfaffelhuber*	The evolution of genealogical trees
16.00		C O F F E E B R E A K
16.30 – 17.30	*E. Baake*	How T-cells use large deviations to recognize foreign antigens

C O N F E R E N C E – D I N N E R

F R I D A Y, March 18

09.30 – 10.30	*R. Bürger*	Intraspecific competition and sympatric speciation
10.30		C O F F E E B R E A K
11.00 – 12.00	*S. Evans*	Escherichia coli, superprocesses, and quasistationary distributions
12.00		L U N C H B R E A K
14.30 – 15.15	*M. Hutzenthaler*	Ergodic behaviour of branching populations with local competition
15.15 – 16.00	*A. Depperschmidt*	A spatial discrete time branching model with local interactions
16.00		C O F F E E B R E A K
16.30 – 17.30	*A. Greven*	Stochastic spatial population model with selection and mutation

S A T U R D A Y, March 19

09.30 – 10.30	*M. Möhle*	Coalescent theory - simultaneous multiple collisions and sampling distributions
10.30		C O F F E E B R E A K
11.00 – 12.00	*J.-F. Le Gall*	Conditioned Brownian trees