**Schedule**

Workshop on "Applied PDEs and kinetic equations: from physics to life sciences and beyond"

Wolfgang Pauli Institute, Vienna
18th – 20th April 2018

Organizers: Marie Doumic (WPI & INRIA)
 Jan Haskovec (KAUST)
 Marie-Therese Wolfram (Warwick & RICAM Linz)
 Klemens Fellner (KFU Graz)
 Lukas Neumann (U. Innsbruck)

**Wednesday 18th**

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| 14:00 - 14:45 | Uri Ascher, U. British Columbia*“Numerical Methods in Visual Computing: what we can learn from each other”*  |
| 14:50 – 15:35 | Jorge Zubelli, IMPIA*“A Non-intrusive Stratified Resampler for Regression Monte Carlo with Applications to Reaction-Diffusion Equations.”*  |
| 15:40 – 16:10  | Coffee break |
| 16:15 – 17:00 | Colloquium talk with Martin Burger“Propagation of gradient flow structures from microscopic to macroscopic models” |
| 17:00 – 17:45 | Colloquium and reception |

**Thursday 19th**

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| 10:05 – 10:50 | Anne Nouri, U. Marseille*“Bose condensates in interaction with excitations. Two-component space-dependent models close to equilibrium”*  |
| 10:55 – 11:25 | *Coffee break* |
| 11:25 – 12:10 | Ingenuin Gasser, U. Hamburg*“A few examples of alternative energy power stations: modelling, simulation and optimisation”*  |
| 12:15 – 14:00 | *Lunch* |
| 14:00 – 14:45 | J. Victor Small*“Moving cells and pathogens with actin: from structure to mathematical models”*  |
| 14:50 – 15:35 | Dietmar Oelz, U. Queensland*“Microtubule dynamics, kinesin-1 sliding and dynein action drive growth of cell processes”* |
| 15:40 – 16:10 | Coffee break |
| 16:10 – 16:55 | Angelika Manhart (NYU Courant)*“Traveling Waves in Cell Populations”* |
| 17:00 – 17:45 | Marie Doumic (INRIA c/o U. Wien & KAUST)*“Some entropy-based results for linear and non-linear aggregation-fragmentation equations”* |

**Friday 20th**

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| 9:15 – 10:00 | Vincent Calvez, ENS Lyon*“Equilibria in quantitative genetic model”*  |
| 10:05 – 10:50 | Gael Raoul, X Palaiseau*“TBA”*  |
| 10:55 – 11:25 | *Coffee break* |
| 11:25 – 12:10 | Carlotta Cuesta, U. Basque Country*“Some aspects of a non-local regularisation of scalar conservation laws”*  |
| 12:15 – 14:00 | *Lunch* |
| 14:00 – 14:45 | Clement Mouhot, U. Cambridge*“TBA”*  |
| 14:50 – 15:35 | Emeric Bouin, U. Paris-Dauphine*“Hypocoercivity without confinement”*  |
| 15:40 – 16:10 | Coffee break |
| 16:10 – 16:55 | Peter Markowich (WPI c/o U. Wien & KAUST)“Discrete and continuum modeling of biological network formation”  |
| 17:00 – 17:45 | Final Remarks |