

Chemotaxis, cross- diffusion effects and concentration phenomena

-Simons Semesters conference

12.02.2018 - 14.02.2018 | Banach Center, Śniadeckich 8, Warsaw

MONDAY, February 12, 2018, room 321

9:55 – 10:00		<i>Opening</i>
10:00 – 10:40	Takashi Suzuki	<i>2D Smoluchowski-Poisson equation and defect measures</i>
10:45 – 11:15		Coffee break (room 409)
11:15 – 11:55	Philippe Souplet	<i>Blow-up profiles for the parabolic-elliptic Keller-Segel system in dimensions $n \geq 3$</i>
12:00 – 12:40	Johannes Lankeit	<i>Infinite time blow-up of many solutions to a general quasilinear parabolic-elliptic Keller-Segel system</i>
12:45 – 15:00		Lunch time and siesta
15:00 – 15:40	Tomomi Yokota	<i>Finite-time blow-up in a quasilinear Keller-Segel system with degenerate diffusion</i>
15:45 – 16:15		Coffee break (room 409)
16:15 – 16:55	José Ignacio Tello	<i>On a PDEs system with gradient dependent chemotactic coefficient</i>
17:00 – 17:40	Tomasz Cieślak	<i>No critical mass phenomenon in 1d quasilinear fully parabolic Keller-Segel system</i>

TUESDAY, February 13, 2018, room 321

9:30 – 10:10	José Antonio Carrillo	<i>Nonlinear aggregation-diffusion equations in the diffusion-dominated and fair-competitions regimes</i>
10:15 – 10:55	Christian Stinner	<i>Global existence for some chemotaxis-haptotaxis models</i>
11:00 – 11:30		Coffee break (room 409)
11:30 – 12:10	Anna Zhigun	<i>Global existence of weak solutions for a degenerate haptotaxis model of cancer invasion</i>
12:15 – 12:55	Youshan Tao	<i>Analysis of a chemotaxis model with indirect production of chemoattractant</i>
13:00 – 15:00		Lunch time and siesta
15:00 – 15:40	Mihaela Negreanu	<i>Asymptotic behavior and global existence of solutions to a two-species chemotaxis system with two chemicals</i>
15:45 – 16:15		Coffee break (room 409)
16:15 – 16:55	Jan Burczak	<i>Regularity results for fractional Patlak-Keller-Segel system</i>
17:00 – 17:40	Grzegorz Karch	<i>Recent results of Piotr Biler on the Keller-Segel model of chemotaxis</i>
19:00		Conference Dinner. Enoteka Polska, Rynek Nowego Miasta 13/15, Warszawa

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WEDNESDAY, February 14, 2018, room 321

9:30 – 10:10	Angela Stevens	<i>Sorting in two species aggregation and chemotaxis</i>
10:15 – 10:55	Tadeusz Nadzieja	<i>Aerotaxis problem</i>
11:00 – 11:30		Coffee break (room 409)
11:30 – 12:10	Cristian Morales Rodrigo	<i>Global weak solutions and asymptotic behavior of a chemotaxis system with singular chemotactic sensitivity and a non-diffusible chemical</i>
12:15 – 12:55	Kentarou Fujie	<i>A higher dimensional generalization of the Keller-Segel system</i>
13:00 – 15:00		Lunch time and siesta
15:00 – 15:40	Danielle Hilhorst	<i>Large time behaviour of the solution of a nonlinear diffusion problem in anthropology</i>
15:45 – 16:15		Coffee break (room 409)
16:15 – 16:55	Philippe Laurençot	<i>A thin film Muskat problem: existence and large time behaviour</i>