# NEWSLETTER

## of the Work Group Mathematical Fluid Mechanics

### Newsletter no. 21 (2021)

#### Our seminar series via Zoom continues

#### visit to Oberwolfach one week ago

One week ago Kathrin Hellmuth and myself attended an Oberwolfach workshop on hyperbolic problems that was part of a German-Chinese exchange program. All participants from China attended via Zoom.

Kathrin lectured on "<u>Inverse</u> problems for kinetic equations: <u>applications to chemotaxis</u>", I lectured on "Kinetic modeling of dilute gas mixtures".



Last academic year we ran a <u>series of weekly Zoom lectures</u> on Hyperbolic Problems with international guests. It was well received. This academic year I will continue this weekly series Fridays at 3 pm. Among the speakers will be:

- Remi Abgrall (Zürich)
- David Ketcheson (Saudi Arabia)
- Lorenzo Pareschi (Ferrara, Italy)
- Francis Filbet (Toulouse, France)
- Dmitri Kuzmin (Dortmund)
- Walter Boscheri (Ferrara, Italy)
- Raphael Loubère (Bordeaux, France)

Remi Abgrall will be the first lecturer on Friday, Sept. 24 at 3 pm.



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#### Farah Kanbar will attend a workshop in the Alps

#### **Upcoming scientific conferences**

Go ahead and click the links to check where you might want to participate.

2021:

Farah Kanbar this upcoming week will attend a <u>Workshop on</u>

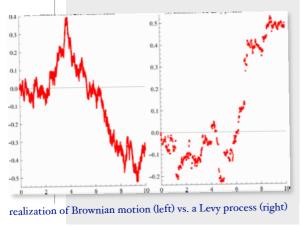
- Sept. 12 - 18: <u>Hirschegg Workshop On Conservation Laws</u> in Kleinwalsertal in Austria, organized among others by Gerald Warnecke



<u>Conservation Laws</u> organized among others by Gerald Warnecke in the beautiful Kleinwalsertal in the Alps. She will give a lecture, see the schedule of the workshop <u>here.</u>

#### New Bachelor-thesis student

Marvin Raab began his Bachelor thesis with our work group. He plans to work on Levy processes in the context of math finance.



2022:

- Jan. 10 - 14, 2022: <u>Workshop on tissue growth</u> <u>and movement</u>, at the Poincaré Institute in Paris, co-organized by Perthame

- Jan. 10 - June 24, 2022: <u>Frontiers in kinetic</u> <u>theory: connecting microscopic to macroscopic</u> <u>scales - KineCon 2022</u>, a one semester program organized at the Newton Institute at Cambridge University with 5 one week workshops in this time

- March 7 - 11, 2022: <u>Perspectives on</u> <u>Multiphase Fluid Dynamics, Continuum</u> <u>Mechanics and Hyperbolic Balance Laws</u> in Luminy near Marseille, France, organized among others by Dumbser and Warnecke

- March 14 - 18, 2022: SIAM Conference on

<u>Analysis of Partial Differential Equations</u> in Berlin, organized by Sid Mishra and Emil Wiedemann

- May 16 - 20, 2022: <u>The Boltzmann Equations: in the trail of Torsten</u> <u>Carlemann</u>, near Stockholm, Sweden

- April 4 - 8, 2022: <u>HIGH ORDER NONLINEAR NUMERICAL METHODS</u> FOR EVOLUTIONARY PDEs: THEORY AND APPLICATIONS (HONOM) in Braga, Portugal, organized by Raphael Loubère und Stephane Clain

- April 10 - 15, 2022: <u>Structure preserving discretizations</u>, in Oberwolfach, organized by Bruno Despres, Michael Dumbser, myself

- May 25 - 29, 2022: <u>Sharing Higher-order Advanced Research Know-how on Finite Volume (SHARK-FV)</u> in Portugal, organized by Raphael Loubère und Stephane Clain (still in its planning stage)

- June 5 - 9, 2022: <u>ECCOMAS congress</u> (ECCOMAS = European Community on Computational Methods in Applied Sciences), in Oslo

- June 20 - 25: HYP2022:<u>18th International Conference on Hyperbolic</u> <u>Problems, Theory, Numerics, Applications</u> - Part 2 (formerly HYP 2020), in Malaga, Spain, organized by Carlos Pares

- July 18 - 22, 2022: <u>When Kinetic Theory meets Fluid Mechanics</u>, Zürich

- Sept. 5 - 9, 2022: <u>10th International Conference on Numerical</u> <u>Methods for Multi-Material Fluid Flow (MULTIMAT 2021)</u> in Zürich, organized by Remi Abgrall

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