NEWSLETTER

of the Work Group Mathematical Fluid Mechanics

Newsletter no. 19 (2021)

Simon Markfelder is listed for a professorship at Oslo University

Simon Markfelder had applied for a tenure track professorship in the mathematics department of Oslo University. Now they have made a list of the best two candidates and Simon is listed as number two. This really bodes well for Simon's academic career.

Paper with Farah Kanbar & Min Tang accepted

The paper *Emako, F. Kanbar, C. Klingenberg, M. Tang "A criterion for asymptotic preserving schemes of kinetic equations to be uniformly stationary preserving", Kinetic and Related models (2021)* has been accepted for publication. This paper has been long in the making and so it's acceptance for pub-lication comes as a relief.

Qin Li invited speaker for HYP2022

The list of invited speakers at the *HYP2022* conference next summer in Malaga, Spain has been finalized by adding *Qin Li* (Madison, Wisc., USA) to the list. Kathrin Hellmuth and myself are closely collaborating with Qin. She really deserves to be an invited speaker.

This week: NumHyp2021 workshop

This week (July 26 - 30) the workshop *Numerical methods for hyperbolic problems, NumHyp2021* will take place in Trento, Italy in an hybrid format. I will attend in person. This will be my first scientific travel since March 2020, just before Corona hit. Michael Dumbser is organizing this meeting. I have been invited to give a lecture.

You find the list of lectures *here*, the book of abstracts *here*.

Let me know if you need online access.

Report on the ICOSAHOM conference

Two weeks ago the *International Conference on Spectral and Higher Order Methods* (ICOSAHOM ~~2020~~ 2021) was held online.

From our extended work-group *there* were lectures by Claudius Birke, *Wasilij Barsukow*, *Gero Schnücke*, *Bruno Despres* and *myself* (*and again myself*). If you click on the names you can see videos of the lectures.

Pictures from the **end-of-semester party** by our extended work group last weekend. The weather was wonderful so that we could be outside the whole time.

Janina Kern has submitted her Bachelor thesis

Janina Kern has submitted her Bachelor thesis titled "*Die Euler-Gleichungen und die Lösung des zugehörigen Riemann-Problems*". Janina had to work on everything during Corona restrictions.

My summer vacation

You can always find my up-to-date schedule *here*. In particular I will be on summer vacation August 8 - 28, the longest vacation I have ever taken. But maybe I'll be able to sneak in a little work …

Matthias Maier's visit last week

Our first in person visitor at the institute since February 2020 was *Matthias Maier* from Texas A&M University. You can download the slides of his talk *here*.

Upcoming scientific conferences

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

2021:

- July 26 - 30: *Numerical methods for hyperbolic problems, NumHyp2021* in Trento (hybrid), organized by Michael Dumbser

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

2022:

- Jan. 10 - 14: *Workshop on tissue growth and movement*, at the Poincaré Institute in Paris, co-organized by Perthame

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

- March 14 - 18, 2022: *SIAM Conference on Analysis of Partial Differential Equations* in Berlin, organized by Sid Mishra and Emil Wiedemann

- May 16 - 20, 2022: *The Boltzmann Equations: in the trail of Torsten Carlemann*, near Stockholm, Sweden

- March or April, 2022: *HIGH ORDER NONLINEAR NUMERICAL METHODS FOR EVOLUTIONARY PDEs: THEORY AND APPLICATIONS (HONOM)* in Braga, Portugal, organized by Raphael Loubère und Stephane Clain

- end of May 2022: *Sharing Higher-order Advanced Research Know-how on Finite Volume (SHARK-FV)* in Portugal, organized by Raphael Loubère und Stephane Clain (still in its planning stage)

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

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

- July 18 - 22, 2022: *When Kinetic Theory meets Fluid Mechanics*, Zürich

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