NEWSLETTER

of the Work Group Mathematical Fluid Mechanics

Newsletter no. 16 (2021)

Last week Marc Herrmann successfully defended his PhD thesis

Marc Herrmann with Stephan Schmidt

Marc Herrmann defended his thesis last Thursday. The dinner in the outdoor restaurant afterwards was the first time our work group saw each other in person since Oberwolfach, which was wonderful.
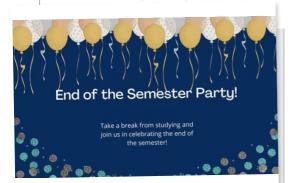
HYP2020/21

Since 1986 every two years the main conference on hyperbolic problems takes place with about 250 attendees. The last one was held in 2018 in the USA organized by Alberto Bressan, *see here*. The follow-up conference, organized by Carlos Pares, called HYP2020, was postponed. It will now be held in two installments. On July 2, 2021 (one day only) it will be online. A year later, June 20 - 24, 2022, it will be hybrid, *see here*.

The one day meeting will have four speakers, among them *Constantine Dafermos* and Min Tang. Dafermos gives very clear lectures, and Min Tang is a collaborator of our's.

Sign up by June 30 for the one-day meeting at the *conference website*, it is free.

Constantine Dafermos

Semester-end party on July 18

Our semester-end party is scheduled for Sunday, July 18.

Master focus on PDEs

The mathematics department has declared the next academic year a focus for the master students in partial differential equations and its applications. Courses will be held by Komla Domolevo and myself.
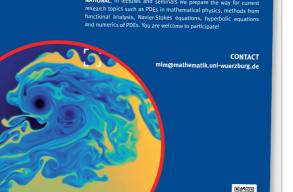

Upcoming scientific conferences

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

2021:

- June 21 - 24: *SIAM Conference on Mathematical & Computational Issues in the Geosciences (GS21)*, in Milan, to be held online

- July 2: HYP2020/21, *18th International Conference on Hyperbolic Problems, Theory, Numerics, Applications* - Part 1 (formerly HYP 2020), one day online with lectures by Dafermos, Min Tang and others

- July 12 - 16: *International Conference on Spectral and Higher Order Methods* ICOSAHOM 2020, Vienna (online only), Wasilij and myself have organized a mini-symposium there

- 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

- fall: Special program on Numerical Methods for Nonlinear Hyperbolic PDEs; at SUSTech, Shenzhen, China: organized by Alex Kurganov (still in the planning stage)

2022:

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

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

- May 16 - 24, 2022: *THE BOLTZMANN EQUATION: IN THE TRAIL OF TORSTEN CARLEMAN*, near Stockholm, Sweden

- end of May: *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 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