

# NEWSLETTER

## of the Work Group Mathematical Fluid Mechanics

*Newsletter no. 15 (2021)*

### June 17: PhD defense Marc Herrmann



On Thursday, June 17, at 4 pm Marc Herrmann's PhD defense will take place in the Pabel Hörsaal.

In case you want to attend, please register yourself using the QR code in front of the Pabel Hörsaal on Thursday before you enter the room. Also bring your face-mask.

Stephan Schmidt will travel to Würzburg to be an examiner at the defense. The other examiners are Roland Herzog and myself.

### Workshop this week:

### *Numerical Methods for Kinetic Equations NumKin21*

This week, June 14 - 18, Eric Sonnendrücker (among others) is organizing an online meeting [Numerical Methods for Kinetic Equations 'NumKin21'](#). It is being organized by the Centre International de Rencontres Mathématiques (CIRM) in Luminy near Marseille. - Two years ago this meeting (NumKin2019) took place at the Max Planck Institute for Plasma Physics in Garching, [see here](#). Sandra Warnecke gave a lecture there.



The program for NumKin21 can be seen [here](#). Registration to follow the lectures is free. Alternatively send [me](#) an email, I'll give you access to the lectures. Among others, there will be lectures by Francis Filbet, Bruno Despres, Anaïs Crestetto, Cory Hauck, Min Tang, Stéphane Brull and myself. Maybe there is something of interest for you.



*This is the building of the CIRM conference center at Luminy near Marseille. It is the French attempt of "Oberwolfach".*

## The Boltzmann workshop in Stockholm has been postponed

The organizers of Boltzmann workshop, [see here](#), which will take place near Stockholm, have decided to postpone the workshop until May 2022.



*The workshop will take place at the Mittag Leffler Institute. This is the former residence of the Swedish mathematician Mittag-Leffler. It is a splendid place for holding Oberwolfach-style workshops.*

## Upcoming scientific conferences

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

### 2021:

- June 14 - 18: [Numerical Methods for Kinetic Equations 'NumKin21'](#), online workshop organized among others by Eric Sonnendrücker.
- June 21 - 24: [SIAM Conference on Mathematical & Computational Issues in the Geosciences \(GS21\)](#), in Milan, to be held online
- July 2: [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
- May 16 - 22: [THE BOLTZMANN EQUATION: IN THE TRAIL OF TORSTEN CARLEMAN](#), near Stockholm, Sweden
- 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
- 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