

NEWSLETTER

of the Work Group Mathematical Fluid Mechanics

Newsletter no. 13 (2021)

Marc Herrmann's PhD defense on June 17

The PhD defense of Marc Herrmann is scheduled for Thursday, June 17 at 4 pm in the Helmut-Pabel Hörsaal in the Bibliotheks- und Seminarzentrum.

The examiners will be Stephan Schmidt und Roland Herzog and myself.

This week: a kinetic conference on honor of Cercignani



Carlo Cercignani was a distinguished Italian mathematician in the theory of kinetic equations. He wrote excellent books on this subject. - I have known him personally and had invited him for the seminar in the early days of my interest in this field.

To commemorate his passing away about 10 years ago, an online workshop will be held this upcoming week, [see here](#). The program with the lectures can be found [here](#). You can attend the lectures via [this link](#) using Webex in your browser. - Both Marlies Pirner and Sandra Warnecke will give lectures.

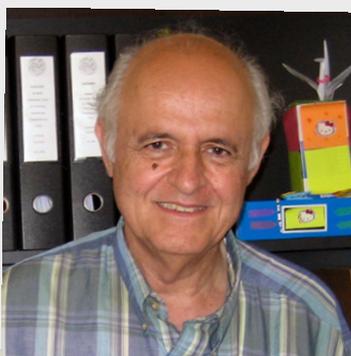


Dafermos conference last week

Last week an online conference was held in honor of Costas Dafermos' 80th birthday. His speciality is the theory of conservation laws. He wrote the "bible" in this field. - He has always given me support throughout my career.

The lectures ([see here](#)) were a strong reminder of past interests of mine. In particular Glimm's lecture (with whom I had been a postdoc and had interacted a lot with him back then) reminded me of the the big challenges when working with him, and the tremendous inspiration this gave me.

I was happy to see that DeLellis, the master in the field of convex integration, mentioned Simon Markfelder's work twice during his lecture. I strongly recommend DeLellis' excellent lecture. You can watch it online at the above link (once it is posted).



Abstract submission for NumHyp 2021 is open

For the [Numerical methods for hyperbolic problems, NumHyp2021](#) conference, to be held in Trento in a hybrid manner, one can now contribute talks. Abstract submission deadline is June 13.



Upcoming scientific conferences

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

2021:

- May 17 - 21: [Advances and Challenges in Hyperbolic Conservation Laws](#), at Brown University in honor of Dafermos, online
- May 24 - 28: [The Legacy of Carlo Cercignani: from Kinetic Theory to Turbulence Modeling](#) Milan, Italy, organized among others by Tommaso Ruggeri
- June 14 - 18: [Numerical Methods for Kinetic Equations 'NumKin21'](#), online workshop organized among others by Shi Jin, register by April 30
- 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 5 - 9: [THE BOLTZMANN EQUATION: IN THE TRAIL OF TORSTEN CARLEMAN](#), near Stockholm, Sweden
- 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
- 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