

NEWSLETTER

of the Work Group Mathematical Fluid Mechanics

Newsletter no. 14 (2025)



Simon Krotsch

Simon Krotsch begins his Master thesis

Simon Krotsch began to work on his Master thesis. He will join our group's effort on a genuinely multi-dim. numerical method for conservation laws, the Active Flux method.

Others in Würzburg working on this topic are the post-docs Junming Duan (until Nov.) and Nikhil Manoj (from Nov. on) and the PhD student Lisa Lechner.

News about conferences:

MultiMat 2026

The 12th *International Conference on Multi-Material Fluid Flow* ([MultiMat 2026](#)) will take place in Biarritz, France September 7 - 11, 2026 organized by Raphael Loubère among others. One of the topics will be compressible multi-material flows, that warrants moving mesh methods.

ICOSAHOM 2027

The next *International Conference on Spectral and High-Order Methods* (ICOSAHOM) will take place in Milan, Italy in late June 2027. It will be organized by Marco Verani among others.

HYP2026

The webpage is now available for the [20th International Conference on Hyperbolic Problems \(HYP2026\)](#). It will be held in Stuttgart May 25 - 29, 2026.

Submission of abstracts for contributed lectures will begin on December 1, 2025.

Our mini-symposium at SIAM PD25 accepted

For the SIAM conference on Analysis of Partial Differential Equations SIAM PD25, held in Pittsburgh, USA Nov. 17 - 20, Simon Markfelder and myself had submitted a mini-symposium called "What are good solution concepts for the PDEs of fluid mechanics?". It has been accepted. Simon and myself will both attend the conference.



Upcoming scientific conferences

Click on the links and check where you might want to participate.

- Sept. 14 - 20, 2025: [Hirschegg Workshop](#), in the Kleinwalsertal, Austria, organized by Ferdinand Thein and Gerald Warnecke
- Sept. 24 - 26, 2025: [Workshop on Hyperbolic Problems](#), in Nürnberg, organized by Emil Wiedemann and Nicola De Nitti
- Oct. 23 - 24, 2025: [Women in PDEs](#) in Karlsruhe, organized among others by Marlis Hochbruck
- Oct. 27 - 31, 2025: Numerical Methods for the Kinetic Equations of Plasma Physics (NumKin 2025), organized by Eric Sonnendrücker in Garching (near Munich)
- November 17 - 20, 2025: [SIAM Conference on Analysis of Partial Differential Equations](#) (PD25), Pittsburgh, Pennsylvania, USA
- December 6 - 8, 2025: Workshop on Active Flux, in Shenzhen, China, organized by Rémi Abgrall and Alexander Kurganov
- March 23 - 27, 2026: [Hyperbolic problems - a comprehensive approach](#), in Würzburg, Germany, organized by Wasilij Barsukow, Simon Markfelder, Marlies Pirner, Fritz Röpke, Emil Wiedemann
- March 30 - April 4, 2026: International Conference on high-order nonlinear numerical methods for evolutionary PDE (HONOM) in Trento, Italy, organized among others by Michael Dumbser
- May 25 - 29, 2026: [20th International Conference on Hyperbolic Problems \(HYP2026\)](#): Theory, Numerics and Applications, in Stuttgart, Germany organized by Maja Lukacova und Christian Rhode
- Sept. 7 - 11, 2026: [12th International Conference on Numerical Methods for Multi-Material Fluid Flow](#) (MultiMat 2026) at Biarritz, France, organized by Raphael Loubère and others
- mid June 2027: Numerical Methods for Hyperbolic Problems (NumHyp 2027), in Verona 2027 organized by Elena Gaburro
- early July 2027: International Conference on Spectral and High-Order Methods (ICOSAHOM 2027), in Milan organized Marco Verani