# NEWSLETTER

## of the Work Group Mathematical Fluid Mechanics

## 4th newsletter

### Würzburg Mathematics colloquium

#### Wintersemester 2020/21

#### Mondays at 2 pm via Zoom

9. Nov., Alexander Mielke, Weierstrass Institut, Berlin: Differential equations as gradient flows, with applications in mechanics, stochastics, and chemistry

23. Nov., Raul Tempone, RWTH Aachen, (Humboldt Preisträger): Hierarchical sampling methods: non-intrusive techniques for variance reduction Hierarchical sampling methods: nonintrusive techniques for variance reduction

30. Nov., Bernd Sturmfels, Max-Planck-Institut für Mathematik in den Naturwissenschaften, Leipzig: *Linear Spaces of Symmetric Matrices* 

14. Dez., Benjamin Gess, Max-Planck-Institut für Mathematik in den Naturwissenschaften, Leipzig und Universität Bielefeld: Large deviations for conservative, stochastic PDE and nonequilibrium fluctuations

18. Jan., Michael Westdickenberg, RWTH Aachen: Selection principles for transport equations and hyperbolic conservation laws

25. Jan., Gilbert Greefrath, Westfälische Wilhelms-Universität Münster: Der Übergang Schule-Hochschule im Fach Mathematik

- - Toma Batter Anno - Hanner



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### Simon Markfelder defended his PhD thesis on Oct. 20

Simon Markfelder passed his defense with a lecture full of mathematical substance and by readily being able to answer all questions of the thesis committee. Unfortunately Eduard Feireisl could not attend in person.

Afterwards he was given his PhD cap built by group members. It represented the Riemann problem for which he had shown the existence of wild solutions.

In the evening we celebrated in a downtown restaurant (the same place where Wasilij had his PhD celebration).

This week Simon and his family are moving house to Cambridge, England for a postdoc position with Edriss Titi. *Good luck, Simon!* 

