Curriculum Vitae

Bangwei She   she@math.cas.cz   Tel: +420 222 090 742

Postdoc @ Insitute of Mathematics, Czech Academy of Science
Address: Žitná 25, 11567, Praha, Czech Republic
Gender: Male   Birth: Apr.1987, Anhui
Citizenship: Chinese

Research interests

characteristic method; gas-kinetic scheme; energy stability; multiscale simulation; viscoelastic flow $\cdots$

Education

2012.03 – 2015.03   *PhD*   Supervisor: Mária Lukáčová
      Institute of Mathematics, University of Mainz. Mainz, Germany
      Institute of Mathematics, Wasede University. Tokyo, Japan(09.2013-03.2014)
      Thesis: Numerical simulation on some viscoelatic fluids

2008.09 – 2011.07   *Master*   Supervisor: Guiping Zhao
      Institute of Applied Physics and Computational Mathematics. Beijing, China
      Thesis: Gas kinetic scheme for compressible two-phase flow model containing
           non-conservative terms

2004.09 – 2008.06   *Bachelor*
      Modern Mechanics, University of Science and Technology of China. Hefei, China

Academic experience

07.2015 –   Postdoc, Institute of Mathematics, Czech Academy of Science
03.2015 – 06.2015   Postdoc, Institute of Mathematics, University of Mainz

Publications

B. She and G. Zhao. A gas-kinetic scheme for compressible two-phase flow model containing non-conservative products, Chinese Journal of Computational Physics 29(1), 2012, 51–57.

M. Lukáčová-Medvid'ová, H. Mizerová, B. She and J. Stebel. Error analysis of the finite element and finite volume methods for some viscoelastic fluids, J. Numer. Math. 24(2), 2016, 105–123.

M. Lukáčová-Medvid'ová, H. Notsu, B. She. Energy dissipative characteristic schemes for the diffusive Oldroyd-B viscoelastic fluid, Int. J. Numer. Methods Fluids. 81(9), 2016, 523–557.

R. Hošek, B. She. A finite difference scheme for compressible viscous isentropic flow in multi-dimension: stability and consistency, accepted by J. Number. Math, 2017.

Preprints

E. Feireisl, M. Lukáčová-Medvid'ová, Š. Nečasová, A. Novotný and B. She. Asymptotic preserving error estimates for numerical solutions of compressible Navier-Stokes equations in the low Mach number regime, IM-CAS preprint, 2016.

R. Hošek, B. She. A convergent stabilized finite volume-finite element method for the compressible Navier-Stokes-Fourier system, in preparation.

Visits

- 2017.Mar.22-31. Polish Academy of Science, Warsaw. Prof. Agnieszka Świerczewska-Gwiazda.

- 2016.Dec.11-21. University of Mainz, Mainz, Germany. Prof. Mária Lukáčová & Dr. Hana Mizerová.

- 2015.Dec.5-12. University of Mainz, Mainz, Germany. Prof. Mária Lukáčová.

- 2014.May.16-31. Beijing Normal University, Beijing, China. Prof. Jiequan Li.

- 3013.Sep.8–2014.Mar.8. Waseda University, Tokyo, Japan. Associate Prof. Hirofumi Notsu.

- 2013.Jun.5–8. Ecole des Ponts ParisTech, Paris, France. Prof. Tony Lelièvre.

Conference talks

- 2017. Jul. Equadiff 2017, Bratislava.
- 2016. Oct. Advanced numerical methods: recent developments, analysis, and applications, Paris.
- 2016. Sep. First China Czech Conference on Mathematical Fluid Mechanics, Beijing
- 2015. Mar. The 11th Japanese-German International Workshop on Mathematical Fluid Dynamics, Tokyo.
- 2014. Oct. Autumn School and Workshop on Mathematical Fluid Dynamics, Bad Boll, Germany.
- 2014. May. Sino-German symposium on modern numerical methods for compressible fluid flows and rlated problem, Beijing.
- 2014. Jan. Winter Seminar and Klausurtagung "Fluids and Snow", Chalet Giersch, La Clusaz, France.
- 2013. Nov. The 9th Japanese-German International Workshop on Mathematical Fluid Dynamics, Tokyo.
- 2013. Jun. The 8th Japanese-German International Workshop on Mathematical Fluid Dynamics, Tokyo.
- 2012. Jun. The 5th Japanese-German International Workshop on Mathematical Fluid Dynamics, Tokyo.

Seminar talks

- 2016. Sep. 23. Institute of Mathematics, Tongji University, Shanghai.
- 2016. Apr. 07. Institute of Mathematics, Charles University, Prague.
- 2015. Dec. 04. Institute of Mathematics, Czech Academy of Sciences, Prague.
- 2015. Feb. 10. Institute of Mathematics, Technical University Darmstadt, Darmstadt.