Martin Michálek

Date of birth 26 August 1988

PLACE OF BIRTH Hradec Králové, Czech Republic

TITLE Mgr. (Master degree)

COMPLETED EDUCATION

Period	2004 - 2008
School	Grammar school in Hradec Králové, mathematical class
Period	2008 - 2011
Degree	Bachelor degree in Pure Mathematics
RESULTS	Summa cum laude, scholarship for the outstanding studying
	results (for years 2009, 2010)
University	Faculty of Mathematics and Physics, Charles University in
	Prague
	Prague
Period	Prague 2011 — 2013
Period Degree	2011 - 2013
	2011 — 2013 Master degree in Mathematical Analysis
DEGREE	2011 — 2013 Master degree in Mathematical Analysis
DEGREE RESULTS	2011 — 2013 Master degree in Mathematical Analysis Summa cum laude, scholarship for the outstanding studying

EDUCATION IN PROGRESS

Period	October 2013 — to date
Degree	Ph.D. in Mathematical Analysis
Supervisor	prof. RNDr. Eduard Feireisl, DrSc.
Topic	Mathematical analysis of equations describing fluid me-
	chanics
University	Faculty of Mathematics and Physics, Charles University
	in Prague
Cooperating	Institute of Mathematics, Academy of Sciences ČR
INSTITUTE	

Conferences and workshops

May 2013	The 13th School in Mathematical Theory in Fluid Mechanics, Kácov, Czech Republic
October 2013	Workshop: Modelling Revisited + Model Reduction, Chateau Liblice, Czech Republic
May 2014	Workshop: Regularity theory for elliptic and parabolic systems and problems in continuum mechanics, Telč, Czech Republic

June 2014	The week of doctoral students, Praha, Czech Republic Short talk on the Compressible Navier Stokes Equations
June 2014	School on Nonlinear Analysis and Function Spaces, Třešt, Czech Republic
September 2014	Conference: Modeling, analysis and computing in nonlinear PDEs, September 21-26, Chateau Liblice, Czech Republic. Short talk: Navier-Stokes equation with Entropy Transport
October 2014	Cooperation on some topics in fluid mechanics, October 14-23, Université du Sud - Toulon - Var, France
November 2014	Participant of Oberwolfach Seminar: Analysis of Compressible Navier Stokes Equations and Related Topics, November 23-29, Mathematisches Forschungsinstitut Oberwolfach, Germany
March - May 2015	Participant of Doc Course of Applied Mathematics , Sevilla and Bilbao, Spain. Research project (under supervision of prof. Francisco Guillén): Mathematical and numerical analysis of the modified Caginalp model for melting and solidification.
May 2015	Participant of BCAM Workshop on Mathematics and its Applications, 27-29 May, Bilbao, Spain. Short speak on the topic: Phase field modelling of melting and solidification
June 2015	Workshop participation: Young Researchers in Fluid Dynamics, Darmstadt, Germany, June 17-19 2015, Short talk on topic: Compressible flows, mathematical and numerical analysis.
June - July 2015	Participation on the seminar: Mathematical Thermodynamics of complex fluids of Centro Internazionale Matematico Estivo, Cetraro, Italy, June 28 - July 4 2015

LIST OF PUBLISHED ARTICLES

2014 M. Michálek. Stability result for Navier-Stokes Equations with Entropy Transport. *Journal of Mathematical Fluid Mechanics*, 2015

LIST OF SUBMITTED ARTICLES

- 2014 E. Feireisl, T. Karper, M. Michálek. Convergence of a numerical method for the compressible Navier-Stokes system on general domains. Submitted to Numerische Mathematik
- 2015 E. Feireisl, R. Hošek, M. Michálek. A convergent numerical method for the full Navier-Stokes-Fourier system in smooth physical domains. Submitted to SIAM Journal on Numerical Analysis

Language skills

English Fluent

GERMAN Working knowledge FRENCH Fair knowledge

OTHER SKILLS

PROGRAMMING Working knowledge of Python, C#, Visual Basic and

MATLAB

MATHEMATICAL knowledge of FEniCS and other implementations of FEM

MODELLING and FVM