Prof. Dr. Weiss, Georg Sebastian

(March 2018)

Prof. Dr. Georg Weiss
Faculty of Mathematics
University of Duisburg-Essen
45117 Essen

Email: georg.weiss@uni-due.de
Secretary: Drte Zimmermann
Tel. +49-201-183-7447

Vita

Born	1968-5-21, Germany
Nationality	German

Education

10/1991	Diplom, University of Bonn
07/1993	PhD, University of Bonn,

Work experience

11/1991 – 03/1995	Research Assistant at the Institute for Applied Mathematics, University of Bonn
04/1995 – 03/1996	JSPS/Humboldt-Fellow at Chiba University, Japan
04/1996 – 03/2000	Assistant Professor (permanent position), Department of Mathematics, Tokyo Institute of Technology, Japan
since 04/2000	Associate Professor (permanent position), Graduate School of Mathematical Sciences, University of Tokyo, Japan
04/2005-09/2005	Max-Planck fellowship at the Max Planck Institute for Mathematics in the Sciences, Leipzig, Germany
10/2005 – 09/2010	continuing the position as Associate Professor University of Tokyo, Japan
in 2010	two offers of full professor positions (Leipzig and Düsseldorf)
10/2010-09/2014	full professor at the Heinrich Heine University in Düsseldorf
from 10/2014	full professor at the university of Duisburg-Essen

Ten Selected Publications

[1] Mariana Smit Vega Garcia, Eugen Vărv˘ arucă, and Georg S. Weiss. Singularities in axisymmetric free boundaries for electrohydrodynamic equations. *Arch. Ration. Mech. Anal.*, 222(2):573–601, 2016.

[2] John Andersson, Henrik Shahgholian, Nina N. Uraltseva, and Georg S. Weiss. Equilibrium points of a singular cooperative system with free boundary. *Adv. Math.*, 280:743–771, 2015.

[3] Eugen Varvaruca and Georg S. Weiss. Singularities of steady axisymmetric free surface flows with gravity. *Comm. Pure Appl. Math.*, 67(8):1263–1306, 2014.

[4] Peter V. Gordon and Georg S. Weiss. Convective combustion in porous media: singular limit of high activation energy. *Nonlinearity*, 26(1):53–63, 2013.

[5] Eugen Varvaruca and Georg S. Weiss. The Stokes conjecture for waves with vorticity. *Ann. Inst. H. Poincaré Anal. Non Linéaire. Won the Best Paper Award 2012-2013*, 29(6):861–885, 2012.

[6] John Andersson, Henrik Shahgholian, and Georg S. Weiss. Double obstacle problems with obstacles given by non-C^2 Hamilton-Jacobi equations. *Arch. Ration. Mech. Anal.*, 206(3):779–819, 2012.

[7] John Andersson, Henrik Shahgholian, and Georg S. Weiss. On the singularities of a free boundary through Fourier expansion. *Invent. Math.*, 187(3):535–587, 2012.

[8] Eugen Varvaruca and Georg S. Weiss. A geometric approach to generalized Stokes conjectures. *Acta Math.*, 206(2):363–403, 2011.

[9] R. Monneau and G. S. Weiss. Pulsating traveling waves in the singular limit of a reaction-diffusion system in solid combustion. *Ann. Inst. H. Poincaré Anal. Non Linéaire*, 26(4):1207–1222, 2009.

[10] Georg S. Weiss. A homogeneity improvement approach to the obstacle problem. *Invent. Math.*, 138(1):23–50, 1999.