

# Viatcheslav Bykov

## Curriculum Vitae

### Personal Details

Date and place of birth: March 19, 1974; Russia;

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### Education

**Ph.D.**                2004, Applied Mathematics, Department of Mathematics and Computer Science, Ben-Gurion University of the Negev, Israel.

Advisor:              Prof. V. Gol'dshtein.

Title of thesis: Mathematical problems of multiphase combustion.

**M.Sc.**                1997, Applied Mathematics, Novosibirsk State University, Mathematical Department.

Advisor:              Prof. V. Ogorodnikov.

Title of thesis: On some probabilistic models of periodically correlated stochastic processes.

**B.Sc.**                1995, Applied Mathematics, Novosibirsk State University, Department of Pure and Applied Mathematics.

Advisor:              Prof. I. Borisov.

Title of thesis: Capability and asymptotical normality of the estimation by maximal spacing.

## Awards and Fellowships

- 2004 – 2006** Minerva Fellowship of Max Planck Society, Germany.
- 2004,** Friedman Prize for Outstanding Mathematicians, Math Department, Ben-Gurion University of the Negev, Israel.
- 2000 – 2003** High Tech. fellowship for excellent Ph.D. students, Ben-Gurion University of the Negev, Israel.

## Employment History

- 2004 – present** Postdoc, Institute of Thermodynamics, Karlsruhe University (TH), Germany
- 1999 - 2004** Teaching assistant (Ph. D. study), Ben-Gurion University of the Negev, Israel.
- 1997 – 1998** Senior researcher, Institute of Applied Mathematics of the Far-Eastern Branch of the Russian Academy of Sciences, Khabarovsk, Russia.

## Visiting Appointments

Visiting Researcher

- Brighton University, England, summer/autumn, 2004.
- Ben Gurion University of the Negev, Israel, summer, 2007.

## Recent presentations and talks at conferences, colloquia, seminars

- 1** *Model reduction: global approach versus local one*, Seminarvorträge, Institut für Verbrennungstechnik VT, DLR, Stuttgart, 29 October, 2007
- 2** *Slow manifolds of reaction convection-diffusion systems*, Workshop on model reduction in reacting flow, Rome, 3-5 September, 2007
- 3** *On Global Quasi Linearization (GQL) in model reduction of chemical kinetics*, Mathematics of model reduction workshop, Leicester University (UK), 28-30 August, 2007

- 4 *On averaging approximations of a poly-disperse fuel spray in auto-ignition problem*, UK-Israel workshop, Sprays: modeling versus experiments, Brighton University (UK), 16-18 July, 2007
- 5 *Singularly perturbed vector fields and application*, 6<sup>th</sup> Negev Applied Mathematical Workshop, Jacob Blaustein Institutes for Desert Research, Ben-Gurion University of the Negev (Israel), 1-5 July, 2007
- 6 *Reaction-diffusion manifolds in reacting flows modelling*, Applied Math. Seminar, Mathematical department, Ben-Gurion University of the Negev (Israel), 5 July, 2007
- 7 *Dimension reduction for large diffusion systems*, status-seminar IWRMM, Karlsruhe University (Germany), 20 April, 2007
- 8 *Global Quasi Linearization (GQL) for the automatic reduction of chemical kinetics*, 3<sup>rd</sup> European Combustion meeting (ECM), Chania (Greece), 11-13 April, 2007
- 9 *Extension of the ILDM method to the domain of slow chemistry*, 31<sup>st</sup> International Symposium on Combustion, Heidelberg (Germany), 6-11 August, 2006
- 10 *ILDM based model reduction for reaction-diffusion-convection systems*, 11th International Conference on Numerical Combustion (NC), Granada (Spain), 23-26 April, 2006

#### **Education Activities (courses taught)**

- 1999 – 2004** Calculus 1, 2; Ordinary Differential Equations; Advanced Analysis; Algebra 1, 2; Probability and Statistics, Ben-Gurion University of the Negev, Israel.
- 1997 – 1998** Mathematical analysis, the Khabarovsk State University of Technology, Russia.