

Curriculum Vitae and Publications

Personal Details

Name: Andreas Fischer
Date of Birth: 10. January 1977
Place of Birth: Burgstädt, Germany
Nationality: German
Marital Status: married, one child

Scientific Education

10/1996 – 03/2002 University of Technology Chemnitz: Subject Physics
03/2002 Diploma (Masters Degree) in Physics
Title of Thesis: *Endoreversible Models for Combustion Engines*
04/2002 – 01/2009 Research Assistant at University of Technology Chemnitz (Chair:
Computational Physics)
01/2008 Doctorate in Physics
Title of Thesis: *Modelling Complex Systems: Tree Structures*
02/2009 – 04/2009 Postdoc Researcher at Center for Nonlinear Studies, Institute of
Cybernetics, Tallinn, Estonia
since 05/2009 Postdoc Research Fellow at Mu'tah University, Jordan
(awarded by the Alexander von Humboldt Foundation)

Publications

- [A] Andreas Fischer. Endoreversible Modelle für Verbrennungsmotoren. Diplomarbeit, Technische Universität Chemnitz, 2002.
- [B] K. H. Hoffmann, J. Burzler, A. Fischer, M. Schaller, and S. Schubert. Optimal process paths for endoreversible systems. *Journal of Non-Equilibrium Thermodynamics*, 28(3):233–268, 2003.
- [C] A. Fischer and K. H. Hoffmann. Can a quantitative simulation of an Otto engine be accurately rendered by a simple Novikov model with heat leak? *Journal of Non-Equilibrium Thermodynamics*, 29(1):9–28, 2004.
- [D] Karl Heinz Hoffmann and Andreas Fischer. Wirkungsgradmodelle für Verbrennungsmotoren. *TU-Spektrum*, Sonderausgabe Auto & Verkehr:20, 2004.
- [E] K. H. Hoffmann, A. Fischer, S. Schubert, and T. Streibert. Modelling aging experiments in spin glasses. In K. H. Hoffmann and A. Meyer, editors, *Parallel Algorithms and Cluster Computing*, volume 52 of *Lecture Notes in Computational Science and Engineering*, pages 281–302. Springer-Verlag, Berlin Heidelberg, 2006.

- [F] A. Fischer, S. Seeger, K. H. Hoffmann, C. Essex, and M. Davison. Modelling anomalous superdiffusion. *Journal of Physics A: Mathematical and General*, 40(38):11441–11452, 2007.
- [G] A. Fischer, K. H. Hoffmann, and P. Sibani. Intermittent relaxation in hierarchical energy landscapes. *Physical Review E*, 77(4):041120/1–5, 2008.
- [H] Andreas Fischer. *Modelling Complex Systems: Tree Structures*. Dissertation, Technische Universität, Chemnitz, Germany, 2008.

Conferences

- 2003 Gordon Research Conference: Modern Developments in Thermodynamics, Il Ciocco, Italy. (Poster: *Endoreversible Models and Internal Combustion Engines – a Comparison*)
- 2003 Advanced School: New Perspectives in Thermodynamics – from the Macro to the Nanoscale, Udine, Italy.
- 2003 Workshop: New Perspectives in Thermodynamics, Venice, Italy. (Talk: *Quantitative Models in Finite Time Thermodynamics*)
- 2004 SFB 393 Workshop on Relaxation Phenomena in Complex Systems, Chemnitz, Germany. (Talk: *Transients in Anomalous Diffusion*)
- 2005 Advanced School and Workshop: New Perspectives in Thermodynamics – Quantifying Non-Equilibrium Processes, Udine, Italy.
- 2006 Technology-Exkursion, Chemnitz, Germany. (Talk: *Optimization of Combustion Engines*)
- 2007 Annual Meeting of the German Physical Society, Regensburg, Germany. (Poster: *Aging, intermittency and metastability in spin glass systems*)
- 2007 Workshop on Energy Landscapes, Petritoli, Italy. (Talk: *Preferential Trapping on Tree Structures*)
- 2008 Annual Meeting of the German Physical Society, Berlin, Germany. (Poster: *Features of Preferential Trapping on Energy Landscapes*)
- 2008 International Field Emission Symposium, Rouen, France
- 2009 Annual Meeting of the German Physical Society, Dresden, Germany. (Poster: *Preferential Trapping in State Space Dynamics*)