Curriculum Vitae

Personal information

Name:	Dr. Michel Jean François Pleimling
Date of birth:	April 24, 1966
Place of birth:	Esch-sur-Alzette (Grand-Duchy of Luxembourg)
Address for correspondence:	Department of Physics 221 Robeson Hall 850 West Campus Drive Virginia Polytechnic Institute and State University Blacksburg, Virginia 24061-0435 United States of America phone: ++1-540-231-2675 fax: ++1-540-231-7511 e-mail: pleim@vt.edu Academy of Integrated Science 800 West Campus Drive Virginia Polytechnic Institute and State University Blacksburg, Virginia 24061-0563 United States of America phone: ++1-540-231-6073 fax: ++1-540-231-3380

Education

08/07/2002	Academic Degree of *Privatdozent*
07/10/2002	Academic Degree of *Dr. rer. nat. habil.* Habilitation at the Friedrich-Alexander-Universität Erlangen-Nürnberg (Germany) Title of the Habilitation thesis: *Critical phenomena in confined geometries* Referees: Prof. K. Binder (Mainz) Prof. H. W. Diehl (Essen) Prof. A. Hüller (Erlangen)

10/18/1996	Academic Degree of *Dr. rer. nat.* Ph.D degree received from the Faculty of Mathematics and Natural Sciences of the Universität des Saarlandes (Germany) Ph.D thesis: *Beschreibung von modulierten Strukturen mit Hilfe von Doppel–Ising–Spin–Modellen* (*Description of modulated structures using double Ising spin models*) Advisor: Prof. Dr. R. Siems Degree *Magna Cum Laude*
07/18/1991	Diploma in physics (*Dipl. Phys.*) with the degree *very good* at the Universität des Saarlandes (Germany) Diploma thesis on *LMTO mit erweitertem Basissatz: Anwendungen auf oxydische Perowskite* (*LMTO with an extended basis set: applications to oxide perovskites*) supervised by Priv.-Doz. Dr. K. H. Weyrich
1987 – 1991	Physics studies at the Universität des Saarlandes (Germany)
07/07/1986	*Certificat d'études scientifiques* at the Centre Universitaire de Luxembourg
1985 – 1986	Mathematics-Physics studies at the Centre Universitaire de Luxembourg
06/28/1985	Baccalaureate (Diplôme de fin d'études secondaires)
1978 – 1985	Lycée Robert Schuman Luxembourg

Academic Career

since 2020	Associate Dean for Undergraduate Programs, College of Science, Virginia Tech
since 2015	Director, Academy of Integrated Science at Virginia Tech
since 2014	Professor at Virginia Tech
2017 - 2020	Director of Inclusion and Diversity, College of Science, Virginia Tech
2014 - 2018	Leader, Integrated Science Curriculum in the Academy of Integrated Science at Virginia Tech
2006 - 2014	Associate Professor at Virginia Tech
2002 - 2006	Assistant Professor at the Institute of Theoretical Physics I of the Friedrich-Alexander-Universität Erlangen-Nürnberg (Germany)

2001 - 2002	Scientific assistant at the Institute of Theoretical Physics I of the Friedrich-Alexander-Universität Erlangen-Nürnberg Advisor: Prof. A. Hüller
2000 - 2001	Post-Doc at the Université Henri Poincaré Nancy I (France) in the framework of a *Marie Curie Individual Fellowship* Advisor: Prof. M. Henkel
1999 - 2000	Scientific assistant at the Institute of Theoretical Physics I of the Friedrich-Alexander-Universität Erlangen-Nürnberg (Germany) Advisor: Prof. A. Hüller
1996 - 1999	Scientific assistant at the Institute of Theoretical Physics of the Rheinisch-Westfälischen Technischen Hochschule (RWTH) Aachen (Germany) Advisor: Prof. W. Selke
1994 - 1996	Graduate research assistant at the Institute of Theoretical Physics of the Universität des Saarlandes (Germany)
1992 - 1994	Scholarship *Landesgraduiertenstipendiat des Saarlandes*
1991 - 1992	Graduate research assistant at the Institute of Theoretical Physics of the Universität des Saarlandes (Germany)

Honors and Fellowships

2019	EPL Distinguished Referee
2017	Dr. Carroll B. Shannon Excellence in Teaching Award
2016	Inducted into the Academy of Teaching Excellence
2016	Academy of Teaching Excellence Alumni Teaching Award
2016	Outstanding Referee for the journals of the American Physical Society
2016	College of Science Certificate of Teaching Excellence
2015	Fellow, American Physical Society
2008 and 2011	*Virginia Tech Faculty Authors Recognition* list
2002	Best Poster Award at the MECO-27 in Sopron/Hungary for the contribution *Anisotropic scaling and generalized conformal invariance*
2000-2001	*Marie Curie Individual Fellowship*
1992-1994	Ph.D Fellowship *Landesgraduiertenstipendiat des Saarlandes*

Funding

1) *Control of universal scaling, noise strength, and pattern formation in critical dynamics* (with Uwe C. Täuber, Physics, Virginia Tech)
Funded by the Army Research Office from April 15, 2017, until February 14, 2022.
Amount of funding: $ 1,531,180

2) *Non-equilibrium relaxation, aging scaling, and critical depinning dynamics of skyrmions in disordered magnetic films* (with Uwe C. Täuber, Physics, Virginia Tech)
Funded by the Department of Energy (DE-FG02-09ER46613) from August 15, 2018, until August 14, 2021.
Amount of funding: $ 450,000

3) *Systems far from equilibrium: relaxation processes and steady-state properties*
Funded by the National Science Foundation (DMR-1606814) from June 1, 2017, until May 31, 2021.
Amount of funding: $ 290,000

4) *Clare Boothe Luce Undergraduate Scholars Program* (with Jody Marshall, Bevlee Warford, Adam Short, Lori Blanc, and Kery Swaby, Virginia Tech)
Funded by the Henry Luce Foundation from December 31, 2017, until December 30, 2020.
Amount of funding: $ 300,000

5) *MATH: EAGER - Building a mathematical toolkit and motivation for success in the physical and quantitative sciences* (with Jill Sible, Biological Sciences, and Megan Wawro, Mathematics, Virginia Tech)
Funded by the National Science Foundation (DUE-1544225), from September 1, 2015, until August 31, 2019.
Amount of funding: $ 296,996

6) *Non-equilibrium relaxation and aging scaling of driven topological defects in condensed matter* (with Uwe C. Täuber, Physics, Virginia Tech)
Funded by the Department of Energy (DE-FG02-09ER46613) from August 15, 2015, until August 14, 2018.
Amount of funding: $ 450,000

7) *STIR: Toward control of universal scaling in critical dynamics* (with Uwe C. Täuber, Physics, and Dan Stilwell, ECE, Virginia Tech)
Funded by the Army Research Office, Engineering Sciences, from May 15, 2015, until November 14, 2015.
Amount of funding: $ 41,802

8) *Transient and Steady-state Properties far from Equilibrium*
Funded by the National Science Foundation (DMR-1205309) from September 1, 2012, until August 31, 2016.
Amount of funding: $ 300,000

9) *Non-equilibrium Relaxation and Aging Scaling of Magnetic Flux Lines in Disordered Type-II Superconductors* (with Uwe C. Täuber, Physics, Virginia Tech)
Funded by the Department of Energy (DE-FG02-09ER46613) from August 15, 2012, until August 14, 2015.
Amount of funding: $ 450,000

10) *Using the Generalized Langevin Equation Formalism to Reconstruct Nonlinear Dynamic Equations from Time Series Data* (with Jianhua Xing, Biology, Virginia Tech)
Funded by Virginia Tech's Institute for Critical Technology and Applied Science from July 1, 2012, until June 30, 2013.
Amount of funding: $ 60,000

11) *Relaxation and Aging Processes out of Equilibrium*
Funded by the National Science Foundation (DMR-0904999) from August 1, 2009, until July 31, 2013.
Amount of funding: $ 270,000

12) *Driven Magnetic Flux Lines in Disordered Superconductors: Relaxation Towards Equilibrium and Nonequilibrium Stationary States* (with Uwe C. Täuber, Physics, Virginia Tech)
Funded by the Department of Energy (DE-FG02-09ER46613) from August 15, 2009, until August 14, 2012.
Amount of funding: $ 450,000

13) *Complexity in Materials far from Equilibrium, Conference, May 14-16, 2008, Blacksburg, VA* (with Uwe C. Täuber, Physics, Virginia Tech)
Funded by the National Science Foundation (DMR-0757181) from May 1, 2008, until April 30, 2009
Amount of funding: $ 5,200

14) *Dynamik und Alterungsphänomene in Nichtgleichgewichtsphasenübergängen (Dynamical behavior and aging phenomena in nonequilibrium phase transitions)*
Funded by the Deutscher Akademischer Auslandsdienst (PROCOPE) in 2006 and 2007.
Amount of funding: 6474 EUR

15) *Aging and the Glass Transition* (with Malte Henkel, Université Nancy)
Funded by the Université Franco-Allemande in 2005.
Amount of funding: 18450 EUR

16) *Alterungsphänomene und dynamisches Skalenverhalten in Systemen fern vom Gleichgewicht (aging phenomena and dynamical scaling in systems far from equilibrium)*
Funded by the Deutschen Forschungsgemeinschaft (project PL 323/2) 2004-2007.
Amount of funding: 105758 EUR

17) *Lokales Skalenverhalten in Phasenübergängen fern vom Gleichgewicht (local scale invariance in nonequilibrium phase transitions)*
Funded by the Bayerisch-Französisches Hochschulzentrum from August 2002 until July 2005.
Amount of funding: 6745 EUR

18) *Applicability of conformal invariance to nonequilibrium phase transitions*
Funded by the European Commission from September 2000 until August 2001.
Amount of funding: 26754.48 EUR

Synergistic Activities

- Co-organizer of a Focus Session on *Control of noisy non-linear dynamical systems* at the 2021 APS March Meeting (virtual), March 15-19, 2021.
- Co-organizer of the *Virginia Soft Matter Workshop VI* that took place in Blacksburg, VA, September 22, 2018.
- Co-organizer of two Focus Sessions on *Noise and Stochastic Fluctuations in Biological Systems*, at the 2017 APS March Meeting in New Orleans, LA, March 13-17, 2017.
- Scientific Coordinator of the 83rd Annual Meeting of the Southeastern Section of the American Physical Society that took place in Charlottesville, VA, November 10-12, 2016.
- Co-organizer of two Focus Sessions on *Systems with Large Fluctuations and Strong Correlations* at the 2016 APS March Meeting in Baltimore, MD, March 14-18, 2016.
- Co-organizer of three Focus Sessions on *Population and Evolutionary Dynamics* at the 2016 APS March Meeting in Baltimore, MD, March 14-18, 2016.
- Co-organizer of three Focus Sessions on *Systems far from Equilibrium* at the 2015 APS March Meeting in San Antonio, TX, March 2-6, 2015.
- Co-organizer of three Focus Sessions on *Physics of Evolutionary and Population Dynamics* at the 2015 APS March Meeting in San Antonio, TX, March 2-6, 2015.
- Co-organizer of the *Virginia Soft Matter Workshop II* that took place in Blacksburg, VA, October 4, 2014.
- Co-organizer of two Focus Sessions on *Strong Correlations in Systems far from Equilibrium* at the 2014 APS March Meeting in Denver, CO, March 3-7, 2014.
- Co-organizer of the International Seminar *Small Systems far from Equilibrium: Order, Correlations, and Fluctuations* that took place at the Max-Planck-Institut für Komplexe Systeme in Dresden/Germany October 14-18, 2013.
- Co-organizer of two Focus Sessions on *Population and Evolutionary Dynamics* at the 2013 APS March Meeting in Baltimore, MD, March 18-22, 2013.
- Co-organizer of the Focus Sessions *Stochastic Population Dynamics I – Cyclic Competition and Population Stability* and *Stochastic Population Dynamics II – Games and Spatial Dynamics* at the 2012 APS March Meeting in Boston, MA, February 27 - March 2, 2012.
- Co-organizer of the 78th Annual Meeting of the Southeastern Section of the American Physical Society (SESAPS 2011) that took place in Roanoke, VA, October 19-22, 2011.
- Co-organizer of the *2nd Washington & Lee – Virginia Tech Research Symposium: Applications of Statistical Physics to Far-from Equilibrium and Biological Systems* that took place in Lexington, VA, July 26, 2011.

- Co-organizer of the International Seminar *Large Fluctuations in Non-Equilibrium Systems* that took place at the Max-Planck-Institut für Komplexe Systeme in Dresden/Germany July 4-15, 2011.

- Co-organizer of the International Symposium *Complex Driven Systems - from Statistical Physics to the Life Sciences* that took place in Blacksburg, VA, October 1-3, 2010.

- Co-organizer of the *2009 Boulder Summer School in Condensed Matter and Material Physics: Nonequilibrium Statistical Mechanics: Fundamental Problems and Applications* (Boulder, CO, July 6-24, 2009).

- Co-organizer of the Focus Session *Systems Far From Equilibrium II* at the 2009 APS March Meeting in Pittsburgh, PA, March 16-20, 2009.

- Co-organizer of the Seminar *Many-body Systems far from Equilibrium: Fluctuations, Slow Dynamics and Long-Range Interactions* that took place at the Max-Planck-Institut für Komplexe Systeme (Dresden, Germany) February 16-27, 2009.

- Co-organizer of the International Symposium *Complexity in Materials far from Equilibrium* that took place in Blacksburg, VA, May 14-16, 2008.

- Co-organizer of the Focus Session *Models and Materials far from Equilibrium* at the 2008 APS March Meeting in New Orleans, LA, March 10-14, 2008.

- Co-organizer and secretary of the summer school *Aging and the Glass Transition* which took place at the Université du Luxembourg (City of Luxembourg) from September 18 2005 until September 24 2005.

- Co-organizer of the physics activities which took place October 22 2005 during the *Lange Nacht der Wissenschaften (Long night of the sciences)* of the Region Nürnberg and Erlangen.

- Organisator of a scientific colloquium in summer 2004 on the occasion of the retirement of Prof. Alfred Hüller.

- Coordinator of the *Seminar zur Theorie der kondensierten Materie*, organized by the Institutes of Theoretical Physics of the RWTH Aachen (Germany) (from January 1997 until November 1999).

- Independent expert helping the services of the European Commission with tasks related to research and technological development. Specifically, I am member of the evaluation committee for research projects submitted within the *Marie Curie Individual Fellowship* scheme. Between 2012 and 2017 I have been the Vice-Chair of the Physics Panel for the *Marie Curie Individual Fellowships*.

- External member in 2004 of two doctorate commission (in one case also referee) at the Université Henri Poincaré Nancy I (France).

- External member of PhD committees at the Jacobs University Bremen (Germany) and the University Leipzig (Germany).
- Reviewer for the Netherlands Organisation for Scientific Research (NWO), for the National Research Foundation of South Africa, the Israel Science Foundation, the German Israeli Foundation for Scientfic Research and Development, and the Deutsche Forschungsgemeinschaft.
- Member of review panels for the National Science Foundation's *Office of Cyberinfrastructure*.
- Reviewer for the Division of Materials Research of the National Science Foundation (Condensed Matter and Materials Theory): regular proposals, CAREER proposals, *Research in Undergraduate Institutions (RUI)* proposals, as well as *Materials World Network: Cooperative Activity in Materials Research between US Investigators and their Counterparts Abroad* proposals
- Editorial Board Member for Scientific Reports (Nature).
- Referee for numerous international journals: Physical Review Letters, Physical Review B, Physical Review E, Scientific Reports, Europhysics Letters/EPL, European Physical Journal B, Journal of Electromagnetic Waves and Applications, Journal of Physics A: Mathematical and General, Journal of Physics: Condensed Matter, Journal of Physics D: Applied Physics, Journal of Theoretical Biology, Journal of the Royal Society Interface, JSTAT, Physica A, Physics Letter A, Research Letters in Physics, Reports on Progress in Physics, Entropy, Chaos, Acta Physica Polonica, $\cdots$
- Elected Member-at-Large of the Executive Committee of the Southeastern Section of the American Physical Society (SESAPS) (from January 2011 to December 2014).
- Vice-Chair (2015), Chair-Elect (2016), Chair (2017), and Past-Chair (2018) of the Southeastern Section of the American Physical Society (SESAPS).
- Chair (2010 - 2015) and member (since 2006 - 2019) of the *Undergraduate Committee* of the Department of Physics at Virginia Tech.
- Chair of the *Undergraduate Awards Committee* (2010 - 2014).
- Member of the *Departmental Awards Committee* (2014 - 2015).
- Advisor for the Physics Undergraduate Honor Students and for the Physics Minors (2010 - 2015).
- Member of the *Long Range Planning Committee* of the Department of Physics 2013-2015).
- Member of the *Internal Review Committee* of the Department of Physics 2013-2015).
- Physics (2010 - 2015) and Academy of Integrated Science (2015-2019) representative in the *College Curriculum Committee*.

- College of Science representative in the *University Curriculum Committee for Liberal Education* (2013 - 2019).
- Chair (Fall 2007 - Summer 2010) and member (since August 2006) of the *Computational Facilities Coordination Committee* of the Department of Physics at Virginia Tech.
- Member of the *Facilities and Renovations Committee* of the Department of Physics at Virginia Tech (Fall 2009 - August 2010).
- Member of the *Promotion and Tenure Committee* of the Department of Physics at Virginia Tech (Fall 2012, 2014-2015).
- Elected Member of the *Executive Committee* of the Department of Physics at Virginia Tech (2013-2015).
- Member of the *College of Science Honorifics Committee* (Fall 2009).
- Organizer of the Condensed Matter Seminars at Virginia Tech (Fall 2006 - Summer 2010).
- Member of Virginia Tech's *Center for Statistical Mechanics, Mathematical Physics, and Theoretical Chemistry*.
- Core Faculty in the *Synergistic Environments for Experimental Computing* Center at Virginia Tech.
- Member of the College of Science *Review Committee* of the Arlington Innovation Center for Health Research (Fall 2013).
- Member of the Academic Program Review Committee for Virginia Tech's Department of Materials Science and Engineering (Spring 2020).
- Chair of five Faculty Search committees at Virginia Tech (Theoretical Polymer Physics, Data and Decision Sciences, Integrated Science Curriculum Leader, Behavioral Decision Science (two searches)). Member of eight other Faculty Search committees at Virginia Tech (condensed matter theory, theoretical soft matter and biological physics (two searches), integrated science (three searches), computational modeling and data analytics, and theoretical/computational chemistry).
- Member of the search committee for the Dean of the College of Science (2015-2016).
- Member of the Stakeholder Committee for Virginia Tech's Economical and Sustainable Materials Destination Area (2016 - 2020). Chair of the Economical and Sustainable Materials Destination Area Curriculum Committee (September 2016 - May 2018, December 2019 - May 2020).
- Member of the Data and Decisions Destination Area Curriculum Committee (since 2019).
- Member of three selection committees for Professors (technical optics, astronomy, theoretical physics) at the Universität Erlangen-Nürnberg (Germany).

- Member of the Fachgruppe Physik responsible for any decision regarding the physics study at the Universität Erlangen-Nürnberg (Germany) (from 2002 to 2006).
- Member and Fellow of the *American Physical Society*.
- Elected Member of Virginia Tech's Chapter of the Research Society Sigma Xi.

Teaching

Lectures

1) *Physik auf dem Computer (computational physics)* given at the RWTH Aachen (Germany) during the summer term 1998 (2 hours per week)

2) *Physik auf dem Computer II (computational physics II)* given at the RWTH Aachen (Germany) during the winter term 1998/1999 (2 hours per week)

3) *Computerphysik zur Statistischen Mechanik (computational physics dealing with statistical mechanics problems)* given at the Universität Erlangen-Nürnberg (Germany) during the winter term 2000/2001 (2 hours per week)

4) *Computerphysik zur Statistischen Mechanik (computational physics dealing with statistical mechanics problems)* given at the Universität Erlangen-Nürnberg (Germany) during the winter term 2001/2002 (2 hours per week)

5) *Repetitorium für Staatsexamenskandidaten zur Theoretischen Physik: Theoretische Mechanik (classical mechanics for prospective high school teachers)* given at the Universität Erlangen-Nürnberg (Germany) during the summer term 2002 (2 hours per week)

6) *Repetitorium für Staatsexamenskandidaten zur Theoretischen Physik: Quantenmechanik (quantum mechanics for prospective high school teachers)* given at the Universität Erlangen-Nürnberg (Germany) during the winter term 2002/2003 (2 hours per week)

7) *Physik auf dem Computer (computational physics)* given at the Universität Erlangen-Nürnberg (Germany) during the winter term 2002/2003 (2 hours per week)

8) *Gruppentheoretische Methoden in der Festkörperphysik (group theoretical methods in condensed matter physics)* given at the Universität Erlangen-Nürnberg (Germany) during the winter term 2003/2004 (2 hours per week)

9) *Phasenübergänge und kritische Phänomene (phase transitions and critical phenomena)* given at the Universität Erlangen-Nürnberg (Germany) during the summer term 2004 (2 hours per week)

10) *Computerphysik zur Statistischen Mechanik (computational physics dealing with statistical mechanics problems)* given at the Universität Erlangen-Nürnberg (Germany) during the winter term 2004/2005 (2 hours per week)

11) *Phasenübergänge fern vom Gleichgewicht (nonequilibrium phase transitions)* given at the Universität Erlangen-Nürnberg (Germany) during the winter term 2005/2006 (2 hours per week)

12) *Computerphysik (computational physics)* given at the Universität Erlangen-Nürnberg (Germany) during the summer term 2006 (2 hours per week)

13) Undergraduate *Thermal Physics* (PHYS 3704) given at Virginia Tech in Spring 2007
overall rating: 3.4 (out of 4)

14) Undergraduate *Basic Tools in Physics* (PHYS 2984) given at Virginia Tech in Fall 2007
overall rating: 3.8 (out of 4)

15) Undergraduate *Thermal Physics* (PHYS 3704) given at Virginia Tech in Spring 2008
overall rating: 3.3 (out of 4)

16) Undergraduate *Basic Tools in Physics* (PHYS 2984) given at Virginia Tech in Fall 2008
overall rating: 3.7 (out of 4)

17) Undergraduate *Intermediate Mechanics* (PHYS 3355) given at Virginia Tech in Spring 2009
overall rating: 3.9 (out of 4)

18) Undergraduate *Mathematical Methods in Physics* (PHYS 2504) given at Virginia Tech in Fall 2009
overall rating: 3.8 (out of 4)

19) Undergraduate *Intermediate Mechanics* (PHYS 3355) given at Virginia Tech in Spring 2010
overall rating: 3.9 (out of 4)

20) Undergraduate *Intermediate Mechanics II* (PHYS 3356) given at Virginia Tech in Fall 2010
overall rating: 3.9 (out of 4)

21) Undergraduate *Intermediate Mechanics* (PHYS 3355) given at Virginia Tech in Spring 2011
overall rating: 3.9 (out of 4)

22) Graduate *Statistical Mechanics* (PHYS 5706) given at Virginia Tech in Spring 2011
overall rating: 3.6 (out of 4)

23) Undergraduate *Intermediate Mechanics II* (PHYS 3356) given at Virginia Tech in Fall 2011
overall rating: 5.81 (out of 6)

24) Undergraduate *Integrated Science I* – First Semester (COS 2984) given at Virginia Tech in Fall 2011
overall rating: 5.71 (out of 6)

25) Undergraduate *Intermediate Mechanics* (PHYS 3355) given at Virginia Tech in Spring 2012
overall rating: 5.44 (out of 6)

26) Undergraduate *Integrated Science I* – Second Semester (COS 2984) given at Virginia Tech in Spring 2012
overall rating: N/A

27) Undergraduate *Intermediate Mechanics II* (PHYS 3356) given at Virginia Tech in Fall 2012
overall rating: 4.87 (out of 6)

28) Undergraduate *Integrated Science II* – First Semester (COS 2984) given at Virginia Tech in Fall 2012
overall rating: 6.00 (out of 6)

29) Graduate *Statistical Mechanics* (PHYS 5706) given at Virginia Tech in Spring 2013
overall rating: 5.60 (out of 6)

30) Undergraduate *Integrated Science II* – Second Semester (ISC 2106) given at Virginia Tech in Spring 2013
overall rating: 3.9 (out of 4)

31) Undergraduate *Highlights of Contemporary Physics* (PHYS 2074) - module on *Complexity and Chaos* given at Virginia Tech in Fall 2013
overall rating: N/A

32) Undergraduate *Intermediate Mechanics* (PHYS 3355) given at Virginia Tech in Spring 2014
overall rating: 5.61 (out of 6)

33) Undergraduate *Highlights of Contemporary Physics* (PHYS 2074) - module on *Complexity and Chaos* given at Virginia Tech in Fall 2014
overall rating: N/A

34) Undergraduate *Mathematical Methods in Physics* (PHYS 2504) given at Virginia Tech in Fall 2014
overall rating: 5.12 (out of 6)

35) Undergraduate *Thermal Physics* (PHYS 3704) given at Virginia Tech in Spring 2015
overall rating: 5.33 (out of 6)

36) Undergraduate *Special Study: Integrated Science Curriculum Freshman Seminar* (ISC 2984) given at Virginia Tech in Fall 2015
overall rating: 5.44 (out of 6)

37) Undergraduate *Integrated Science Curriculum Orientation Seminar* (ISC 1004) given at Virginia Tech in Fall 2016
overall rating: 5.47 (out of 6)

38) Undergraduate *Special Study: Differential Calculus and the Integral* (ISC 2984) given at Virginia Tech in Fall 2016
overall rating: 5.75 (out of 6)

39) Undergraduate *Integrated Science Curriculum Orientation Seminar* (ISC 1004) given at Virginia Tech in Fall 2017
overall rating: 5.34 (out of 6)

40) Undergraduate *Integrated Science Curriculum Differential and Integral Calculus* (ISC 1224) given at Virginia Tech in Fall 2017
overall rating: 5.86 (out of 6)

41) Undergraduate *Integrated Science I* (ISC 1106) given at Virginia Tech in Spring 2018
overall rating: 4.88 (out of 6)

42) Undergraduate *Integrated Science Curriculum Orientation Seminar* (ISC 1004) given at Virginia Tech in Fall 2018
overall rating: 5.57 (out of 6)

42) Undergraduate *Integrated Science I* (ISC 1106) given at Virginia Tech in Spring 2019
overall rating: 5.62 (out of 6)

43) Undergraduate *Integrated Science Curriculum Orientation Seminar* (ISC 1004) given at Virginia Tech in Fall 2019
overall rating: 5.88 (out of 6)

44) Undergraduate *Integrated Science I* (ISC 1106) given at Virginia Tech in Spring 2020
overall rating: 5.42 (out of 6)

45) Undergraduate *Integrated Science Curriculum Orientation Seminar* (ISC 1004) given at Virginia Tech in Fall 2020
overall rating: 5.65 (out of 6)

Recitations

1) *Einführung in die Theoretische Physik (introduction to theoretical physics)* held at the Universität des Saarlandes (Germany) in the summer term 1989 (2 hours per week)

2) *Theoretische Physik I: Theoretische Mechanik (theoretical physics I: classical mechanics)* held at the Universität des Saarlandes (Germany) in the winter term 1989/1990 (2 hours per week)

3) *Theoretische Physik II: Elektrodynamik (theoretical physics II: electrodynamics)* held at the Universität des Saarlandes (Germany) in the summer term 1990 (2 hours per week)

4) *Theoretische Physik III: Quantenmechanik (theoretical physics III: quantum mechanics)* held at the Universität des Saarlandes (Germany) in the winter term 1990/1991 (2 hours per week)

5) *Theoretische Physik IV: Statistische Mechanik und Thermodynamik (theoretical physics IV: statistical mechanics and thermodynamics)* held at the Universität des Saarlandes (Germany) in the summer term 1991 (2 hours per week)

6) *Theoretische Physik V (theoretical physics V)* held at the Universität des Saarlandes (Germany) in the winter term 1991/1992 (2 hours per week)

7) *Festkörperphysik (solid state physics)* held at the Universität des Saarlandes (Germany) in the summer term 1992 (2 hours per week)

8) *Einführung in die Theoretische Physik (introduction to theoretical physics)* held at the Universität des Saarlandes (Germany) in the summer term 1993 (2 hours per week)

9) *Theoretische Physik I: Theoretische Mechanik (theoretical physics I: classical mechanics)* held at the Universität des Saarlandes (Germany) in the winter term 1993/1994 (2 hours per week)

10) *Theoretische Physik II: Elektrodynamik (theoretical physics II: electrodynamics)* held at the Universität des Saarlandes (Germany) in the summer term 1994 (2 hours per week)

11) *Theoretische Physik III: Quantenmechanik (theoretical physics III: quantum mechanics)* held at the Universität des Saarlandes (Germany) in the winter term 1994/1995 (2 hours per week)

12) *Theoretische Physik IV: Statistische Mechanik und Thermodynamik (theoretical physics IV: statistical mechanics and thermodynamics)* held at the Universität des Saarlandes (Germany) in the summer term 1995 (2 hours per week)

13) *Theoretische Physik V (theoretical physics V)* held at the Universität des Saarlandes (Germany) in the winter term 1995/1996 (2 hours per week)

14) *Festkörperphysik (solid state physics)* held at the Universität des Saarlandes (Germany) in the summer term 1996 (2 hours per week)

15) *Theoretische Physik I (theoretical physics I)* held at the RWTH Aachen (Germany) in the summer term 1997 (2 hours per week)

16) *Theoretische Physik II (theoretical physics II)* held at the RWTH Aachen (Germany) in the winter term 1997/1998 (2 hours per week)

17) *Physik auf dem Computer (computational physics)* held at the RWTH Aachen (Germany) in the summer term 1998 (2 hours per week)

18) *Physik auf dem Computer II (computational physics II)* held at the RWTH Aachen (Germany) in the winter term 1998/1999 (2 hours per week)

19) *Theoretikum zur Theoretischen Physik I: Mechanik (classical mechanics)* held at the Universität Erlangen-Nürnberg (Germany) in the winter term 1999/2000 (3 hours per week)

20) *Theoretikum zur Theoretischen Physik IV: Quantenmechanik II (quantum mechanics II)* held at the Universität Erlangen-Nürnberg (Germany) in the summer term 2000 (3 hours per week)

21) *Theoretikum zur Theoretischen Physik V: Elektrodynamik und Grundzüge der Feldtheorie (electrodynamics and field theory)* held at the Universität Erlangen-Nürnberg (Germany) in the winter term 2000/2001 (3 hours per week)

22) *Computerphysik zur Statistischen Mechanik (computational physics dealing with statistical mechanics problems)* held at the Universität Erlangen-Nürnberg (Germany) in the winter term 2000/2001 (2 hours per week)

23) *Theoretikum zur Theoretischen Physik II: Quantenmechanik I (quantum mechanics I)* held at the Universität Erlangen-Nürnberg (Germany) in the summer term 2001 (3 hours per week)

24) *Theoretikum zur Theoretischen Physik III: Statistische Mechanik und Thermodynamik (statistical mechanics and thermodynamics)* held at the Universität Erlangen-Nürnberg (Germany) in the winter term 2001/2002 (3 hours per week)

25) *Computerphysik zur Statistischen Mechanik (computational physics dealing with statistical mechanics problems)* held at the Universität Erlangen-Nürnberg (Germany) in the winter term 2001/2002 (2 hours per week)

26) *Physik auf dem Computer (computational physics)* held at the Universität Erlangen-Nürnberg (Germany) in the winter term 2002/2003 (2 hours per week)

27) *Theoretikum zur Theoretischen Physik IV: Elektrodynamik (Neuer Zyklus) (electrodynamics, new cycle)* held at the Universität Erlangen-Nürnberg (Germany) in the summer term 2003 (3 hours per week)

28) *Theoretikum zur Theoretischen Physik V: Quantenmechanik II (Neuer Zyklus) (quantum mechanics II, new cycle)* held at the Universität Erlangen-Nürnberg (Germany) in the winter term 2003/2004 (3 hours per week)

29) *Theoretikum zur Theoretischen Physik II: Quantenmechanik I (quantum mechanics I)* held at the Universität Erlangen-Nürnberg (Germany) in the summer term 2004 (3 hours per week)

30) *Theoretikum zur Theoretischen Physik III: Statistische Mechanik und Thermodynamik (statistical mechanics and thermodynamics)* held at the Universität Erlangen-Nürnberg (Germany) in the winter term 2004/2005 (3 hours per week)

31) *Computerphysik zur Statistischen Mechanik (computational physics dealing with statistical mechanics problems)* held at the Universität Erlangen-Nürnberg (Germany) in the winter term 2004/2005 (2 hours per week)

32) *Einführung in die Theoretische Physik (introduction to theoretical physics)* held at the Universität Erlangen-Nürnberg (Germany) in the summer term 2005 (3 hours per week)

33) *Theoretikum zur Theoretischen Physik I: Mechanik (classical mechanics)* held at the Universität Erlangen-Nürnberg (Germany) in the winter term 2005/2006 (3 hours per week)

34) *Computerphysik (computational physics)* held at the Universität Erlangen-Nürnberg (Germany) in the summer term 2006 (2 hours per week)

Student seminars

The student seminars I supervised in the past dealt with various aspects of theoretical physics (especially statistical physics and condensed matter physics). Below you find the different subjects and in parentheses the name of the student.

1) *Diffusion in Doppelminimum-Potentialen (diffusion in potentials with two minima)* (Rixecker) supervised at the Universität des Saarlandes (Germany) in 1991

2) *Quantenmechanik und chaos I (quantum mechanics and chaos I)* (Pattard) supervised at the Universität des Saarlandes (Germany) in 1992

3) *Quantenmechanik und chaos II (quantum mechanics and chaos II)* (Jenal) supervised at the Universität des Saarlandes (Germany) in 1992

4) *Landau-Theorie für modulierte Strukturen I (Landau theory for modulated structures I)* (Finteis) supervised at the Universität des Saarlandes (Germany) in 1993

5) *Landau-Theorie für modulierte Strukturen II (Landau theory for modulated structures II)* (Müller) supervised at the Universität des Saarlandes (Germany) in 1993

6) *Phononen und Defekte I (phonons and defects I)* (Prahm) supervised at the Universität des Saarlandes (Germany) in 1995

7) *Phononen und Defekte II (phonons and defects II)* (Heydt) supervised at the Universität des Saarlandes (Germany) in 1995

8) *Phasenübergänge (phase transitions)* (Ehm) supervised at the Universität des Saarlandes (Germany) in 1996

9) *Renormierungsgruppentheorie (renormalization group theory)* (Nikola) supervised at the Universität des Saarlandes (Germany) in 1996

10) *Metamagnete in Molekurfeldnäherung (metamagnets in mean-field approximation)* (Mönnigmann) supervised at the RWTH Aachen (Germany) in 1997

11) *Oberflächenmagnetisierung (surface magnetization)* (Post) supervised at the RWTH Aachen (Germany) in 1997

12) *Renormierungsgruppentheorie (renormalization group theory)* (Eisen) supervised at the Universität Erlangen-Nürnberg (Germany) in 2003

13) *Phasenübergänge fern vom Gleichgewicht (nonequilibrium phase transitions)* (Richter) supervised at the Universität Erlangen-Nürnberg (Germany) in 2003

14) *Anomalien von Wasser bei tiefen Temperaturen (anomalies of water at low temperatures)* (Stenner) supervised at the Universität Erlangen-Nürnberg (Germany) in 2005

Research projects

The University of Erlangen proposes an accelerated physics curriculum for gifted students, leading the students to the Ph.D degree within six years after they started their studies. One of the characteristics of this accelerated physics study is the early involvement of the students in research projects, starting with their third year. During my stay in Erlangen I have supervised the following research projects:

1) *Dynamik fern vom Gleichgewicht (out-of-equilibrium dynamics)* (Krückl)

2) *Der Spin-Glas-Übergang (the spin glass transition)* (Kirmair)

Diploma theses

1) B. Neubert, *Ising-Modelle mit konkurrierenden Wechselwirkungen: Analytische und numerische Untersuchungen (Ising models with competing interactions: analytical and numerical investigations)* (Universität des Saarlandes, 1994) co-supervisor

2) K. Jenal, *Analytische und numerische Berechnungen von Akkumulationspunkten im ANNNI-Modell (analytical and numerical calculations of accumulation points in the ANNNI model)* (Universität des Saarlandes, 1994) co-supervisor

3) T. Müller, *Stabilität und Dynamik von Clustern auf Kristalloberflächen (stability and dynamics of clusters on a crystal surface)* (RWTH Aachen, 1998) co-supervisor

4) D. Catrein, *Räumlich modulierte magnetische Strukturen in dünnen Filmen (spatially modulated magnetic structures in thin films)* (RWTH Aachen, 2000) co-supervisor

5) A. Richter, *Die mikrokanonische Entropie des dreidimensionalen XY-Modells (the microcanonical entropy of the three-dimensional XY model)* (Universität Erlangen-Nürnberg, 2004)

6) A. Fromm, *Mikrokanonische Untersuchung von trikritischen Punkten in einem System mit konkurrierenden Wechselwirkungen (microcanonical analysis of tricritical points in systems with competing interactions)* (Universität Erlangen-Nürnberg, 2005)

7) A. Röthlein, *Dynamisches Verhalten fluktuierender Grenzflächen (dynamical properties of fluctuating interfaces)* (Universität Erlangen-Nürnberg, 2006)

Ph.D theses

1) Boris Neubert, *Symmetriebasierte mikroskopische Modelle für modulierte Materialien (symmetry-based microscopic models for the description of modulated materials)* (Universität des Saarlandes, 1997) co-supervisor

2) Hans Behringer, *On the structure of the entropy surface of microcanonical systems* (Universität Erlangen-Nürnberg, 2004) co-supervisor

3) Florian Baumann, *Alterungsphänomene und dynamisches Skalenverhalten in Systemen fern vom Gleichgewicht (ageing phenomena and dynamical scaling in systems far from equilibrium)* (Universität Erlangen-Nürnberg, 2007)

4) Sven Dorosz, *Fluctuation relations in non-equilibrium systems* (Virginia Tech, 2010)

5) Yen-Liang Chou, *Relaxation phenomena during non-equilibrium growth* (Virginia Tech, 2011)

6) Hyunhang Park, *Spin systems far from equilibrium : Aging and dynamic phase transition* (Virginia Tech, 2013)

7) Nasrin Afzal, *Aging processes in complex systems* (Virginia Tech, 2013)

8) Ben Intoy, *Pure and mixed strategies in cyclic competition: Extinction, coexistence, and pattern* (Virginia Tech, 2015)

9) Nicholas Borchers, *Non-equilibrium statistical mechanics of a two-temperature Ising ring with conserved dynamics* (Virginia Tech, 2015)

10) Linjun Li, *Systems driven out of equilibrium with energy input at interfaces or boundaries* (Virginia Tech, 2015)

11) Shahir Mowlaei, *Mean field analysis of generalized cyclic competitions* (Virginia Tech, 2015)

12) Xiangwen Wang, *Heavy tails and anomalous diffusion in human online dynamics* (Virginia Tech, 2019)

13) Shadisadat Esmaeili, *Relaxation and spontaneous ordering in systems with competition* (Virginia Tech, 2019)

14) Barton L. Brown, *Pattern formations and relaxation dynamics in non-equilibrium systems* (Virginia Tech, 2019)

15) Ahmedreza Azizi, *Study of critical phenomena with Monte Carlo and machine learning techniques* (Virginia Tech, 2020)

16) Jason Czak (Virginia Tech, started Summer 2017)

17) James Stidham (Virginia Tech, started Fall 2017)

Undergraduate research at Virginia Tech

1) Siddharth Venkart (Fall 2008 – Spring 2011)
2) Vojtech Gall (Fall 2008)
3) Daniel Hockensmith (Fall 2008)
4) Alexander Corwin (Spring 2009 – Spring 2010)
5) Justin Waugh (Spring 2009 – Spring 2010)
6) Wade Duvall (Summer 2009 – Spring 2010)
7) Colin Lorenz (Spring 2010 – Spring 2011)
8) Clinton Durney (Summer 2010 – Spring 2011)
9) Owen Lynch (Spring 2011)
10) Trevor Richards (Summer 2011)
11) Sara Case (Summer 2010 – Spring 2012)
12) Robert Heitz (Fall 2010 – Spring 2012)
13) David Konrad (Spring 2011 – Spring 2012)
14) Daniel Kim (Spring 2012)
15) Ahmed Roman (Spring 2011 – Spring 2014)
16) Peter Raum (Fall 2011 – Spring 2013)
17) James Mayberry (Spring 2012 – Spring 2014)
18) Keith Tauscher (Fall 2012 – Spring 2014)
19) Mark Brown (Fall 2012 – Spring 2015)
20) Hilton Galyean (Fall 2012 – Spring 2015)
21) Bart Brown (Summer 2013 – Spring 2015)
22) Brendan Miles (Fall 2013 – Spring 2015)
23) Jason Gray (Fall 2014 – Spring 2017)
24) Diana Campero-Coss (Fall 2014 – Spring 2015)

25) Christopher Dobson (Spring 2015)

26) Carlos Segovia Bustamante (Spring 2015 – Fall 2015)

27) Kenneth McLarney (Fall 2015 – Spring 2016)

28) James Stidham (Summer 2016 – Spring 2017)

29) Henry Yockey (Fall 2016 – Spring 2017)

30) Ryan Baker (Summer 2017 – Summer 2019)

31) Mason Stoecker (Fall 2019 – Spring 2020)

32) Hana Mir (since Spring 2020)

Special achievements of my students

- Hans Behringer
  Ohm Prize 2004 for the Best Ph.D. Thesis of the Physics Department of the Universität Erlangen-Nürnberg

- Florian Baumann
  Staedtler Prize 2008 for the Best Ph.D. Thesis of the Universität Erlangen-Nürnberg

- Sven Dorosz
  James A. Jacobs Memorial Graduate Fellowship 2009, Department of Physics, Virginia Tech

- Sven Dorosz
  C. H. Wan Scholarship 2009, Department of Physics, Virginia Tech

- Siddhart Venkat
  Hugh D. Ussery Scholarship 2009, Department of Physics, Virginia Tech

- Daniel Hockensmith
  Robert C. Richardson Scholarship 2009, Department of Physics, Virginia Tech

- Alexander Corwin
  Daniel C. and Delia F. Grant Scholarship 2009, Department of Physics, Virginia Tech

- Justin Waugh
  Daniel C. and Delia F. Grant Scholarship 2009, Department of Physics, Virginia Tech

- Sven Dorosz
  2009 College of Science Roundtable Advisory Board Make-a-Difference Scholarship for Graduate Studies

- Siddhart Venkat
  2010 Sigma Xi Award for Outstanding Undergraduate Research

- Yen-Liang Chou
  2010 Sigma Xi Research Award for Ph.D. Degree Candidates

- Yen-Liang Chou
  James A. Jacobs Memorial Graduate Fellowship 2010, Department of Physics, Virginia Tech

- Justin Waugh
  2010 College of Science Senior of the Year, Virginia Tech

- Justin Waugh
  H. Y. Loh Award 2010, Department of Physics, Virginia Tech

- Siddhart Venkat
  Hugh D. Ussery Scholarship 2010, Department of Physics, Virginia Tech

- Siddhart Venkat
  2011 Phi Kappa Phi Outstanding Senior for the College of Science Award

- Siddhart Venkat
  2011 College of Science Outstanding Undergraduate Research Award, Virginia Tech

- Nasrin Afzal
  Jamie Dunn Award 2011, Department of Physics, Virginia Tech

- Sara Case
  Hugh D. Ussery Scholarship 2011, Department of Physics, Virginia Tech

- David Konrad
  Daniel C. and Delia F. Grant Scholarship 2011, Department of Physics, Virginia Tech

- Robert Heitz
  Robert P. Hamilton Prize 2011, Department of Physics, Virginia Tech

- Robert Heitz
  Robert C. Richardson Scholarship 2011, Department of Physics, Virginia Tech

- Siddhart Venkat
  H. Y. Loh Award 2011, Department of Physics, Virginia Tech

- Ahmed Roman
  Best Undergraduate Oral Presentation at the 78th Annual Meeting of the Southeastern Section of the American Physical Society (Roanoke, VA, October 19-22, 2011)

- Sara Case
  H. Y. Loh Award 2012, Department of Physics, Virginia Tech

- Keith Tauscher
  Daniel C. and Delia F. Grant Scholarship 2012, Department of Physics, Virginia Tech

- Mark Brown
  Wan-Zia Scholarship 2012, Department of Physics, Virginia Tech
- Peter Raum
  Webster and Sara Schoene Richardson Memorial Scholarship 2012, Department of Physics, Virginia Tech
- James Mayberry
  Col. Nelson Carey Brown Memorial Scholarship 2012, Department of Physics, Virginia Tech
- Hilton Galyean
  Robert C. Richardson Scholarship 2012, Department of Physics, Virginia Tech
- Hyunhang Park
  Clayton D. Williams Graduate Fellowship in Theoretical Physics 2012, Department of Physics, Virginia Tech
- Ahmed Roman
  2013 College of Science Outstanding Undergraduate Research Award, Virginia Tech
- Mark Brown
  Wan-Zia Scholarship 2013, Department of Physics, Virginia Tech
- Mark Brown
  Robert C. Richardson Scholarship 2013, Department of Physics, Virginia Tech
- Mark Brown
  Robert Lee Bowden, Jr. Essay Prize 2013, Department of Physics, Virginia Tech
- Keith Tauscher
  Webster and Sara Schoene Richardson Memorial Scholarship 2013, Department of Physics, Virginia Tech
- James Mayberry
  Col. Nelson Carey Brown Memorial Scholarship 2013, Department of Physics, Virginia Tech
- Linjun Li
  Wan-Zia Scholarship for Graduate Students 2013, Department of Physics, Virginia Tech
- Ben Intoy
  Lubna Ijaz Scholarship 2013, Department of Physics, Virginia Tech
- Ben Intoy
  Hassinger Graduate Fellowship in Physics 2013, Department of Physics, Virginia Tech
- Mark Brown
  Honorable Mention in 2014 Goldwater Scholarship

- Nicholas Borchers
  William E. Hassinger Graduate Fellowship 2014, Department of Physics, Virginia Tech
- Ben Intoy
  Clayton D. Williams Graduate Fellowship in Theoretical Physics 2014, Department of Physics, Virginia Tech
- Mark Brown
  Hugh D. Ussery Scholarship 2014, Department of Physics, Virginia Tech
- Bart Brown
  Robert C. Richardson Scholarship 2014, Department of Physics, Virginia Tech
- Hilton Galyean
  Robert C. Richardson Scholarship 2014, Department of Physics, Virginia Tech
- James Mayberry
  H. Y. Loh Award 2014, Department of Physics, Virginia Tech
- Keith Tauscher
  H. Y. Loh Award 2014, Department of Physics, Virginia Tech
- Xiangwen Wang
  Ray F. Tipsword Graduate Scholarship 2015, Department of Physics, Virginia Tech
- Shadi Esmaeili
  Jamie Dunn Award 2015, Department of Physics, Virginia Tech
- Hilton Galyean
  Robert C. Richardson Scholarship 2015, Department of Physics, Virginia Tech
- Carlos Segovia Bustamante
  Robert C. Richardson Scholarship 2015, Department of Physics, Virginia Tech
- Mark Brown
  H. Y. Loh Award 2015, Department of Physics, Virginia Tech
- Shadi Esmaeili
  Lubna Ijaz Scholarship 2016, Department of Physics, Virginia Tech
- James Stidham
  H. Y. Loh Award 2017, Department of Physics, Virginia Tech
- Shadi Esmaeili
  Ray F. Tipsword Graduate Scholarship 2017, Department of Physics, Virginia Tech
- Bart Brown
  William E. Hassinger Graduate Fellowship 2017, Department of Physics, Virginia Tech

- Shadi Esmaeili
  Clayton D. Williams Graduate Fellowship in Theoretical Physics 2018, Department of Physics, Virginia Tech

- Bart Brown
  Clayton D. Williams Graduate Fellowship in Theoretical Physics 2018, Department of Physics, Virginia Tech

- Bart Brown
  Best Poster Award at the 2018 Symposium of Virginia Tech's Center for Soft Matter and Biological Physics

- James Stidham
  William E. Hassinger Graduate Fellowship 2019, Department of Physics, Virginia Tech

- James Stidham
  William E. Hassinger Graduate Fellowship 2020, Department of Physics, Virginia Tech

- Josan Czak
  William E. Hassinger Graduate Fellowship 2021, Department of Physics, Virginia Tech

List of publications (peer reviewed)

1. M. Pleimling and R. Siems, *Properties of a double Ising model: phase diagrams, discommensurations, and accumulation points of structure branchings*, Ferroelectrics **151**, 69-74 (1994).

2. B. Neubert, M. Pleimling, T. Tentrup and R. Siems, *Polarizations and p-T-phase diagrams of BCCD: Interpretation in terms of frustrated Ising models*, Ferroelectrics **155**, 359-364 (1994).

3. M. Pleimling and R. Siems, *Low temperature expansion of a double Ising spin model*, Ferroelectrics **185**, 103-106 (1996).

4. M. Pleimling, B. Neubert and R. Siems, *Interrelations between various frustrated Ising- and q-state-models*, Z. Phys. B **104**, 125-130 (1997).

5. M. Pleimling and W. Selke, *Anomalies in the antiferromagnetic phase of the metamagnet* $FeBr_2$, Phys. Rev. B **56**, 8855-8862 (1997).

6. B. Neubert, M. Pleimling and R. Siems, *Models for the description of uniaxially modulated materials*, Ferroelectrics **208-209**, 141-190 (1998).

7. B. Neubert, M. Pleimling and R. Siems, *Derivation of symmetry-based pseudo spin models for modulated materials*, J. Korean Phys. Soc. **32**, S36-S39 (1998).

8. M. Pleimling and W. Selke, *Critical phenomena at perfect and non-perfect surfaces*, Eur. Phys. J. B **1**, 385-391 (1998).

9. M. Pleimling, B. Neubert and R. Siems, *Low temperature phase diagram and critical behaviour of the four-state chiral clock model*, J. Phys. A: Math. Gen. **31**, 4871-4883 (1998).

10. B. Neubert, M. Pleimling and R. Siems, *Transitions between phases with equal wave numbers in a Double Ising Spin model. Application to betaine calcium chloride dihydrate*, J. Phys.: Condens. Matter **10**, 6883-6896 (1998).

11. M. Pleimling and W. Selke, *Critical phenomena at edges and corners*, Eur. Phys. J. B **5**, 805-810 (1998).

12. B. Neubert and M. Pleimling, *Comment on 'On the* T_S*-Anomalie in Betaine Calcium Chloride Dihydrate'* , J. Phys. Soc. Jpn. **67**, 3324-3325 (1998).

13. M. Pleimling and W. Selke, *Edge critical behavior at the surface transition of Ising magnets*, Phys. Rev. B **59**, 65-68 (1999).

14. M. Pleimling and W. Selke, *Nonclassical effects and off-diagonal couplings in a model for* $FeBr_2$, Phys. Rev. B **59**, 8395-8396 (1999).

15. M. Pleimling, *Spin-ordering in $S = 1$ anisotropic Heisenberg models with nondiagonal spin exchange*, Eur. Phys. J. B **10**, 465-473 (1999).

16. M. Pleimling and W. Selke, *Ising cubes with enhanced surface couplings*, Phys. Rev. E **61**, 933-936 (2000).

17. M. Pleimling and W. Selke, *Droplets in the coexistence region of the two-dimensional Ising model*, J. Phys. A: Math. Gen. **33**, L199-L202 (2000).

18. M.-C. Chung, M. Kaulke, I. Peschel, M. Pleimling, and W. Selke, *Ising films with surface defects*, Eur. Phys. J. B **18**, 655-661 (2000).

19. W. Selke, D. Catrein, and M. Pleimling, *Spatially modulated magnetic structures in thin films*, J. Phys. A: Math. Gen. **33**, L459-L463 (2000).

20. M. Pleimling and A. Hüller, *Crossing the coexistence line at constant magnetization*, J. Stat. Phys. **104**, 971-989 (2001).

21. M. Pleimling and M. Henkel, *Anisotropic scaling and generalized conformal invariance at Lifshitz points*, Phys. Rev. Lett. **87**, 125702, pp. 1-4 (2001).

22. M. Henkel, M. Pleimling, C. Godrèche, and J.-M. Luck, *Aging, phase ordering, and conformal invariance*, Phys. Rev. Lett. **87**, 265701, pp. 1-4 (2001).

23. W. Selke, M. Pleimling, I. Peschel, M. Kaulke, M.-C. Chung, and D. Catrein, *Ising thin films with modulations and surface defects*, J. Magn. Magn. Mater. **240**, 349-351 (2002).

24. M. Pleimling, *Surface critical exponents at a uniaxial Lifshitz point*, Phys. Rev. B **65**, 184406, pp. 1-9 (2002).

25. W. Selke, M. Pleimling, and D. Catrein, *Phase diagrams of Ising films with competing interactions*, Eur. Phys. J. B **27**, 321-327 (2002).

26. M. Pleimling, *Phase transitions at surfaces, edges, and corners*, Comp. Phys. Commun. **147**, 101-106 (2002).

27. M. Henkel and M. Pleimling, *Anisotropic scaling and generalized conformal invariance at Lifshitz points*, Comp. Phys. Commun. **147**, 419-422 (2002).

28. A. Hüller and M. Pleimling, *Microcanonical determination of the order parameter critical exponent*, Int. J. Mod. Phys. C **13**, 947-956 (2002).

29. H. Behringer, M. Pleimling, and A. Hüller, *Phase transitions in a cluster molecular field approximation*, Eur. Phys. J. B **31**, 81-93 (2003).

30. M. Henkel and M. Pleimling, *Comment on 'Aging, phase ordering, and conformal invariance' - Reply*, Phys. Rev. Lett. **90**, 099602, p. 1 (2003).

31. M. Henkel, M. Paessens, and M. Pleimling, *Scaling of the magnetic linear response in phase-ordering kinetics*, Europhys. Lett. **62**, 664-670 (2003).

32. M. Henkel and M. Pleimling, *Local scale invariance as dynamical space-time symmetry in phase-ordering kinetics*, Phys. Rev. E **68**, 065101(R), pp. 1-4 (2003).

33. M. Pleimling and F. Iglói, *Out-of-equilibrium critical dynamics at surfaces: Cluster dissolution and non-algebraic correlations*, Phys. Rev. Lett. **92**, 145701, pp. 1-4 (2004).

34. M. Pleimling, *Critical phenomena at perfect and non-perfect surfaces*, J. Phys. A: Math. Gen. **37**, R79-R115 (2004).

35. M. Henkel, M. Paessens, and M. Pleimling, *Scaling of the linear response in simple aging systems without disorder*, Phys. Rev. E **69**, 056109, pp. 1-10 (2004).

36. M. Pleimling, *Comment on 'Fluctuation-dissipation relations in the nonequilibrium critical dynamics of Ising models'*, Phys. Rev. E **70**, 018101, pp. 1-4 (2004).

37. M. Pleimling, H. Behringer, and A. Hüller, *Microcanonical scaling in small systems*, Phys. Lett. A **328**, 432-436 (2004).

38. M. Pleimling, *Aging phenomena in critical semi-infinite systems*, Phys. Rev. B **70**, 104401, pp. 1-11 (2004).

39. M. Pleimling, F. Á. Bagaméry, L. Turban, and F. Iglói, *Logarithmic corrections in the two-dimensional Ising model in a random surface field*, J. Phys. A: Math. Gen. **37**, 8801-8809 (2004).

40. M. Henkel, A. Picone, and M. Pleimling, *Two-time autocorrelation function in phase-ordering kinetics from local scale-invariance*, Europhys. Lett. **68**, 191-197 (2004).

41. H. Behringer, M. Pleimling, and A. Hüller, *Finite-size behaviour of the microcanonical specific heat*, J. Phys. A: Math. Gen. **38**, 973-985 (2005).

42. M. Henkel and M. Pleimling, *Ageing and dynamical scaling in the critical Ising spin glass*, Europhys. Lett. **69**, 524-530 (2005).

43. M. Pleimling and F. Iglói, *Nonequilibrium critical dynamics in inhomogeneous systems*, Phys. Rev. B **71**, 094424, pp. 1-12 (2005).

44. M. Pleimling and A. Gambassi, *Corrections to local scale invariance in the non-equilibrium dynamics of critical systems: Numerical evidences*, Phys. Rev. B **71**, 180401(R), pp. 1-4 (2005).

45. M. Henkel and M. Pleimling, *On the scaling and ageing behaviour of the alternating susceptibility in spin glasses and local scale invariance*, J. Phys.: Condens. Matter **17**, S1899-S1913 (2005).

46. A. Richter, M. Pleimling, and A. Hüller, *The density of states of classical spin systems with continuous degrees of freedom*, Phys. Rev. E **71**, 056705, pp. 1-7 (2005).

47. F. Baumann, M. Henkel, M. Pleimling, and J. Richert, *Ageing without detailed balance in the bosonic contact and pair-contact processes: exact results*, J. Phys. A: Math. Gen. **38**, 6623-6640 (2005).

48. M. Henkel and M. Pleimling, *Reply to 'Comment on 'Scaling of the linear response in simple aging systems without disorder' '*, Phys. Rev. E **72**, 028104, pp. 1-3 (2005).

49. M. Pleimling and H. Behringer, *Microcanonical analysis of small systems*, Phase Transitions **78**, 787-797 (2005).

50. M. Pleimling and I. A. Campbell, *Dynamic critical behaviour in Ising spin glasses*, Phys. Rev. B **72**, 184429, pp. 1-7 (2005).

51. L. Környei, M. Pleimling, and F. Iglói, *Reentrance during nonequilibrium relaxation*, Europhys. Lett. **73**, 197-203 (2006).

52. F. Baumann and M. Pleimling, *Out-of-equilibrium properties of the semi-infinite kinetic spherical model*, J. Phys. A: Math. Gen. **39**, 1981-1999 (2006).

53. H. Behringer and M. Pleimling, *Continuous phase transitions with a convex dip in the microcanonical entropy*, Phys. Rev. E **74**, 011108, pp. 1-8 (2006).

54. M. Henkel, T. Enss, and M. Pleimling, *On the identification of quasiprimary scaling operators in local scale-invariance*, J. Phys. A: Math. Gen. **39**, L589-L598 (2006).

55. M. Henkel and M. Pleimling, *Ageing in disordered magnets and local scale invariance*, Europhys. Lett. **76**, 561-567 (2006).

56. A. Röthlein, F. Baumann, and M. Pleimling, *Symmetry based determination of space-time functions in nonequilibrium growth processes*, Phys. Rev. E **74**, 061604, pp. 1-14 (2006).

57. A. Röthlein, F. Baumann, and M. Pleimling, *Erratum: Symmetry-based determination of space-time functions in nonequilibrium growth processes [Phys. Rev. E 74, 061604 (2006)]*, Phys. Rev. E **76**, 019901(E), pp. 1-2 (2007).

58. M. Pleimling and F. Iglói, *Nonequilibrium critical relaxation at a first-order phase transition point*, Europhys. Lett. **79**, 56002, pp. 1-6 (2007).

59. F. Baumann and M. Pleimling, *Local aging phenomena close to magnetic surfaces*, Phys. Rev. B **76**, 104422, pp. 1-11 (2007).

60. L. Környei, M. Pleimling, and F. Iglói, *Nonequilibrium critical dynamics of the two-dimensional Ising model quenched from a correlated initial state*, Phys. Rev. E **77**, 011127, pp. 1-6 (2008).

61. V. Elgart and M. Pleimling, *Aging processes in reversible reaction-diffusion systems*, Phys. Rev. E **77**, 051134, pp. 1-9 (2008).

62. D. Minic and M. Pleimling, *Correspondence between nonrelativistic anti-de Sitter space and conformal field theory, and aging-gravity duality*, Phys. Rev. E **78**, 061108, pp. 1-6 (2008).

63. M. Henkel and M. Pleimling, *Superuniversality in phase-ordering disordered ferromagnets*, Phys. Rev. B **78**, 224419, pp. 1-8 (2008).

64. S. Dorosz and M. Pleimling, *Fluctuation ratios in the absence of microscopic time reversibility*, Phys. Rev. E **79**, 030102(R), pp. 1-4 (2009).

65. Y.-L. Chou and M. Pleimling, *Parameter-free scaling relation for nonequilibrium growth processes*, Phys. Rev. E **79**, 051605, pp. 1-4 (2009).

66. M. Kastner and M. Pleimling,*Microcanonical phase diagrams of short-range ferromagnets*, Phys. Rev. Lett. **102**, 240604, pp. 1-4 (2009).
Selected for the July 2009 issue of the *Virtual Journal of Atomic Quantum Fluids*.

67. S. Dorosz and M. Pleimling, *Characterizing steady state and transient properties of reaction-diffusion systems*, Phys. Rev. E **80**, 061114, pp. 1-10 (2009).

68. Y.-L. Chou, M. Pleimling, and R. K. P. Zia, *Effects of temperature quenches on surface growth processes*, Phys. Rev. E **80**, 061602, pp. 1-7 (2009).

69. M. Henkel and M. Pleimling, *Non-Markovian global persistence in phase-ordering kinetics*, J. Stat. Mech. P12012, pp. 1-8 (2009).

70. S. Venkat and M. Pleimling, *Mobility and asymmetry effects in one-dimensional rock-paper-scissors games*, Phys. Rev. E **81**, 021917, pp. 1-5 (2010).

71. M. Pleimling, B. Schmittmann, and R. K. P. Zia, *Convection cells induced by spontaneous symmetry breaking*, EPL **89**, 50001, pp. 1-5 (2010).

72. Y.-L. Chou and M. Pleimling, *Characterization of non-equilibrium growth through global two-time quantities*, J. Stat. Mech. P08007, pp. 1-24 (2010).

73. H. Park and M. Pleimling, *Aging in coarsening diluted ferromagnets*, Phys. Rev. B **82**, 144406, pp. 1-9 (2010).

74. M. T. Shimer, U. C. Täuber, and M. Pleimling, *Nonequilibrium relaxation and scaling properties of the two-dimensional Coulomb glass in the aging regime*, EPL **91**, 67005, pp. 1-6 (2010).

75. T. Mukherjee, M. Pleimling, and Ch. Binek, *Probing equilibrium by non-equilibrium dynamics: Aging in Co/Cr superlattices*, Phys. Rev. B **82**, 134425, pp. 1-5 (2010).

76. S. O. Case, C. H. Durney, M. Pleimling, and R. K. P. Zia, *Cyclic competition of four species: Mean field theory and stochastic evolution*, EPL **92**, 58003, pp. 1-6 (2010).

77. S. Dorosz and M. Pleimling, *Entropy production in the non-equilibrium steady states of interacting many-body systems*, Phys. Rev. E **83**, 031107, pp. 1-8 (2011).

78. F. Iglói, M. Pleimling, and L. Turban, *Nonequilibrium phase transition in a driven Potts model with friction*, Phys. Rev. E **83**, 041110, pp. 1-11 (2011).

79. D. ben-Avraham, S. Dorosz and M. Pleimling, *Realm of validity of the Crooks relation*, Phys. Rev. E **83**, 041129, pp. 1-6 (2011).

80. C. H. Durney, S. O. Case, M. Pleimling, and R. K. P. Zia, *Saddles, Arrows, and Spirals: Deterministic Trajectories in Cyclic Competition of Four Species*, Phys. Rev. E **83**, 051108, pp. 1-13 (2011).

81. D. Minic and M. Pleimling, *The Jarzynski identity and the AdS/CFT duality*, Phys. Lett. B **700**, 277-281 (2011).

82. N. Afzal, J. Waugh, and M. Pleimling, *Ageing processes in reversible reaction-diffusion systems: Monte Carlo simulations*, J. Stat. Mech. P06006, pp. 1-12 (2011).

83. D. ben-Avraham, S. Dorosz and M. Pleimling, *Entropy production in nonequilibrium steady states: A different approach and an exactly solvable canonical*, Phys. Rev. E **84**, 011115, pp. 1-5 (2011).

84. Y.-L. Chou and M. Pleimling, *Ising metamagnets in thin film geometry: Equilibrium properties*, Phys. Rev. B **84**, 134422, pp. 1-8 (2011).

85. M. Pleimling and U. C. Täuber, *Relaxation and glassy dynamics in type-II superconductors*, Phys. Rev. B **84**, 174509, pp. 1-10 (2011).

86. Y.-L. Chou and M. Pleimling, *Kinetic roughening, global quantities, and fluctuation-dissipation relations*, Physica A **391**, 3585-3593 (2012).

87. M. Henkel, J. D. Noh, and M. Pleimling, *Phenomenology of aging in the Kardar-Parisi-Zhang equation*, Phys. Rev. E **85**, 030102(R), pp. 1-5 (2012).

88. L. Li and M. Pleimling, *Formation of nonequilibrium modulated phases under local energy input*, EPL **98**, 30004, pp. 1-5 (2012).

89. C. H. Durney, S. O. Case, M. Pleimling, and R. K. P. Zia, *Stochastic evolution of four species in cyclic competition*, J. Stat. Mech. P06014, pp. 1-18 (2012).

90. A. Roman, D. Konrad, and M. Pleimling, *Cyclic competition of four species: domains and interfaces*, J. Stat. Mech. P07014, pp. 1-13 (2012).

91. H. Park and M. Pleimling, *Domain growth and aging scaling in coarsening disordered systems*, Eur. Phys. J. B **85**, 300-306 (2012).

92. H. Park and M. Pleimling, *Surface criticality at a dynamic phase transition*, Phys. Rev. Lett. **109**, 175703, pp. 1-5 (2012).

93. M. Marcuzzi, A. Gambassi, and M. Pleimling, *Collective nonequilibrium dynamics at surfaces and the spatio-temporal edge*, EPL **100**, 46004, pp. 1-5 (2012).

94. N. Afzal and M. Pleimling, *Aging processes in systems with anomalous slow dynamics*, Phys. Rev. E **87**, 012114, pp. 1-8 (2013).

95. N. Gray, D. Minic, and M. Pleimling, *On non-equilibrium physics and string theory*, Int. J. Mod. Phys. A **28**, 1330009, pp. 1-40 (2013).

96. H. Park and M. Pleimling, *Dynamic phase transition in the three-dimensional kinetic Ising model in an oscillating field*, Phys. Rev. E **87**, 032145, pp. 1-4 (2013).

97. A. Roman, D. Dasgupta, and M. Pleimling, *Interplay between partnership formation and competition in generalized May-Leonard games*, Phys. Rev. E **87**, 032148, pp. 1-11 (2013). 98. U. Dobramysl, H. Assi, M. Pleimling, and U. C. Täuber, *Relaxation dynamics in type-II superconductors with point-like and correlated disorder*, Eur. Phys. J. B **86**, 228, pp. 1-15 (2013).

99. H. Park and M. Pleimling, *Erratum: Surface Criticality at a Dynamic Phase Transition [Phys. Rev. Lett. 109, 175703 (2012)]*, Phys. Rev. Lett. **110**, 239903(E), p. 1 (2013).

100. B. Intoy and M. Pleimling, *Extinction in four species cyclic competition*, J. Stat. Mech. (2013) P08011, pp. 1-16.

101. L. Li and M. Pleimling, *Surface critical exponents at a discontinuous bulk transition*, Phys. Rev. B **88**, 214426, pp. 1-6 (2013).

102. K. Tauscher and M. Pleimling, *Surface phase diagram of the three-dimensional kinetic Ising model in an oscillating magnetic field*, Phys. Rev. E **89**, 022121, pp. 1-4 (2014).

103. S. Mowlaei, A. Roman, and M. Pleimling, *Spirals and coarsening patterns in the competition of many species: A complex Ginzburg-Landau approach*, J. Phys. A: Math. Theor. **47**, 165001, pp. 1-19 (2014).

104. C. Godrèche and M. Pleimling, *Dynamics of the two-dimensional directed Ising model in the paramagnetic phase*, J. Stat. Mech. (2014) P05005, pp. 1-28.

105. J. Mayberry, K. Tauscher, and M. Pleimling, *Equilibrium and non-equilibrium properties of synthetic metamagnetic films: A theoretical study*, Phys. Rev. B **90**, 014438, pp. 1-10 (2014).

106. M. T. Shimer, U. C. Täuber, and M. Pleimling, *Non-equilibrium relaxation and aging scaling of the Coulomb and Bose glass*, Phys. Rev. E **90**, 032111, pp. 1-10 (2014).

107. U. Dobramysl, M. Pleimling, and U. C. Täuber, *Pinning time statistics for vortex lines in disordered environments*, Phys. Rev. E **90**, 062108, pp. 1-6 (2014).

108. N. Borchers, M. Pleimling, and R. K. P. Zia, *Non-equilibrium statistical mechanics of a two-temperature Ising ring with conserved dynamics*, Phys. Rev E **90**, 062113, pp. 1-11 (2014).

109. M. O. Brown, R. H. Galyean, X. Wang, and M. Pleimling, *Relaxation processes in a system with logarithmic growth*, Phys. Rev. E **91**, 052116, pp. 1-10 (2015).

110. B. Intoy and M. Pleimling, *Synchronization and extinction in cyclic games with mixed strategies*, Phys. Rev. E **91**, 052135, pp. 1-12 (2015).

111. C. Godrèche and M. Pleimling, *Dynamics of the two-dimensional directed Ising model: zero-temperature coarsening*, J. Stat. Mech. (2015) P07023, pp. 1-30.

112. M. Pleimling and U. C. Täuber, *Characterization of relaxation processes in interacting vortex matter through a time-dependent correlation length*, J. Stat. Mech. (2015) P09010, pp. 1-12

113. H. Assi, H. Chaturvedi, U. Dobramysl, M. Pleimling, and U. C. Täuber, *Relaxation dynamics of vortex lines in disordered type-II superconductors following magnetic field and temperature quenches*, Phys. Rev. E **92**, 052124, pp. 1-16 (2015).

114. L. Li and M. Pleimling, *Three-dimensional nonequilibrium Potts systems with magnetic friction*, Phys. Rev. E **93**, 042122, pp. 1-7 (2016).

115. A. Roman, D. Dasgupta, and M. Pleimling, *A theoretical approach to understand spatial organization in complex ecologies*, J. Theor. Biol. **403**, 10-16 (2016).

116. H. Assi, H. Chaturvedi, U. Dobramysl, M. Pleimling, and U. C. Täuber, *Disordered vortex matter out of equilibrium: a Langevin molecular dynamics study*, Molecular Simulation **42**, 1401-1409 (2016)

117. H. Chaturvedi, H. Assi, U. Dobramysl, M. Pleimling, and U. C. Täuber, *Flux line relaxation kinetics following current quenches in disordered type-II superconductors*, J. Stat. Mech. (2016) 083301, pp. 1-16

118. H. Assi, H. Chaturvedi, M. Pleimling, and U. C. Täuber, *Structural relaxation and aging scaling in the Coulomb and Bose glass models*, Eur. Phys. J. B (2016) 89: 252, pp. 1-15.

119. X. Wang and M. Pleimling, *Foraging patterns in online searches*, Phys. Rev. E **95**, 032145, pp. 1-13 (2017).

120. S. Esmaeili, D. Labavić, M. Pleimling, and H. Meyer-Ortmanns, *Breaking of time-translation invariance in Kuramoto dynamics with multiple time scales*, EPL **118**, 40006, pp. 1-6 (2017).

121. B. L. Brown and M. Pleimling, *Coarsening with non-trivial in-domain dynamics: correlations and interface fluctuations*, Phys. Rev. E **96**, 012147, pp. 1-9 (2017).

122. U. Dobramysl, M. Mobilia, M. Pleimling, and U. C. Täuber, *Stochastic population dynamics in spatially extended predator-prey systems*, Topical Review, J. Phys. A: Math. Theor. **51**, 063001, pp. 1-47 (2018).

123. B. L. Brown, U. C. Täuber, and M. Pleimling, *The effect of the Magnus force on skyrmion relaxation dynamics*, Phys. Rev. B **97**, 020405(R), pp. 1-5 (2018).

124. C. Godrèche and M. Pleimling, *Freezing in stripe states for kinetic Ising models: a comparative study of three dynamics*, J. Stat. Mech. (2018) 043209, pp. 1-22.

125. X. Wang and M. Pleimling, *Behavior analysis of virtual-item gambling*, Phys. Rev. E **98**, 012126, pp. 1-12 (2018).

126. A. Azizi, J. Stidham, and M. Pleimling, *Dynamic critical properties of non-equilibrium Potts models with absorbing states*, J. Stat. Mech. (2018) 103208, pp. 1-19 (2018).

127. H. Chaturvedi, N. Galliher, U. Dobramysl, M. Pleimling, and U. C. Täuber, *Dynamical regimes of vortex flow in type-II superconductors with parallel twin boundaries*, Eur. Phys. J. B. **91**, 294, pp. 1-13 (2018).

128. S. Esmaeili, B. L. Brown, and M. Pleimling, *Perturbing cyclic predator-prey systems: how a six-species coarsening system with non-trivial in-domain dynamics responds to sudden changes*, Phys. Rev. E **98**, 062105, pp. 1-10 (2018).

129. B. L. Brown, H. Meyer-Ortmanns, and M. Pleimling, *Dynamically generated hierarchies in games of competition*, Phys. Rev. E **99**, 062116, pp. 1-12 (2019).

130. B. L. Brown, U. C. Täuber, and M. Pleimling, *Skyrmion relaxation dynamics in the presence of quenched disorder*, Phys. Rev. B **100**, 024410, pp. 1-8 (2019).

131. X. Wang and M. Pleimling, *Online gambling of pure chance: wager distribution, risk attitude, and anomalous diffusion*, Scientific Reports bf 9, 14712, pp. 1-17 (2019).

132. R. Baker and M. Pleimling, *The effect of habitats and fitness on species coexistence in systems with cyclic dominance*, J. Theor. Biol. **486**, 110084, pp. 1-8 (2020).

133. H. Chaturvedi, U. Dobramysl, M. Pleimling, and U. C. Täuber, *Critical scaling and aging near the flux-line-depinning transition*, Phys. Rev. B **101**, 024515, pp. 1-8 (2020).

134. Priyanka, U. C. Täuber, and M. Pleimling, *Feedback control of surface roughness in a one-dimensional KPZ growth process*, Phys. Rev. E **101**, 022101, pp. 1-8 (2020).

135. A. Azizi and M. Pleiling, *Critical phenomena in presence of symmetric absorbing states: A microscopic model with tunable parameters*, Phys. Rev. E **102**, 022112, pp. 1-8 (2020).

136. J. Stidham and M. Pleimling, *Late stages in the ordering of magnetic skyrmion lattices*, Phys. Rev. B **102**, 144434, pp. 1-8 (2020).

137. Priyanka, U. C. Täuber, and M. Pleimling, *The role of the non-linearity in controlling the surface roughness in the one-dimensional Kardar-Parisi-Zhang growth process*, J. Phys A: Math. Theor. **54**, 154002, pp. 1-18 (2021).

138. A. Azizi and M. Pleimling, *A cautionary tale for machine learning generated configurations in presence of a conserved quantity*, Scientific Reports **11**, 6395, pp. 1-10 (2021).

Books

1. M. Henkel, M. Pleimling, and R. Sanctuary (eds), *Statistical Physics of Ageing Phenomena and the Glass Transition*, Proceedings of the Summer School *Ageing and the Glass Transition*, Journal of Physics: Conference Series **40** (Institute of Physics, London, 2006).

2. M. Henkel, M. Pleimling, and R. Sanctuary (eds), *Ageing and the Glass Transition*, Springer Lecture Notes in Physics **716** (Springer, Heidelberg, 2007).

3. M. Henkel and M. Pleimling, *Non-Equilibrium Phase Transitions: Volume 2: Ageing and Dynamical Scaling far from Equilibrium* (Springer, Heidelberg, 2010)

List of publications (not peer reviewed)

1. M. Pleimling, *Phase transitions and conformal invariance*, ftp.cordis.lu/pub/improving/docs/mcf_proceedings_paris.pdf .

2. A. Hüller and M. Pleimling, *Comment on 'Efficient, multiple-range random walk algorithm to calculate the density of states'* , cond-mat/0011379.

3. M. Pleimling, *Lokales Skalenverhalten fern vom Gleichgewicht*, Benutzer-Information Regionales Rechenzentrum Erlangen **BI70**, 16-17 (2003).

4. M. Henkel, A. Picone, M. Pleimling, and J. Unterberger, *Local scale invariance and its applications to strongly anisotropic critical phenomena*, in *Mathematical Physics Frontiers*, editor C. V. Benton, Nova Science (New York), 2004; cond-mat/0307649.

5. M. Pleimling, *Dynamical scaling behaviour far from equilibrium*, in *NIC Symposium 2006 - Proceedings*, editors G. Münster, D. Wolf and M. Kremer, NIC Series (Jülich), 227-234 (2006).

6. M. Henkel and M. Pleimling, *Local scale-invariance in disordered systems*, in *Rugged Free Energy Landscapes: Common Computational Approaches in Spin Glasses, Structural Glasses and Biological Macromolecules*, editor W. Janke, Lecture Notes in Physics **736**, 107-146 (Springer, Berlin, 2008); cond-mat/0703466 (**invited book chapter**).

7. F. Baumann, M. Henkel, and M. Pleimling, *Phase-ordering kinetics of two-dimensional disordered Ising models*, arxiv:0709.3228.

8. S. Dorosz and M. Pleimling, *Steady state and transient properties of reaction-diffusion systems*, Physics Procedia **4**, 107 (2010).

9. M. Pleimling, *Out-of-equilibrium dynamical behavior of coarsening ferromagnets*, Physics Procedia **9**, 76 (2010).

10. D. Minic, M. Pleimling, and A. E. Staples, *On the steady state distributions for turbulence*, arXiv:1105.2941.

Invited talks

1. *Doppelspinmodelle: Phasendiagramme, Strukturverzweigungen, Akkumulationspunkte und Ordnung der Phasenübergänge (Double spin models: phase diagrams, structure branchings, accumulation points and order of phase transitions)*, Seminar *Inkommensurable Strukturen* (*Incommensurate Structures*), Hünfeld/Germany, February 2 1994

2. *From Crystal Structure to Phase Diagrams - pseudo spin models for modulated solids*, Seminar *Inkommensurable Strukturen* der DPG und der Fakultät für Physik und Geowissenschaften (Abt. Physik Dielektrischer Festkörper) der Universität Leipzig, Erbenhausen/Germany, October 5 1995

3. *Critical phenomena at perfect and non-perfect surfaces*, Landelijk Seminarium Statistische Mechanica, Delft/Netherlands, December 12 1997

4. *Critical phenomena at surfaces, edges, and corners*, Université Henri Poincaré Nancy I, Nancy/France, December 11 1998

5. *Kritisches Verhalten an Oberflächen mit Ecken und Kanten (Critical behavior of surfaces with edges and corners)*, Theorieseminar, Universität-Gesamthochschule Essen, Essen/Germany, April 22 1999

6. *Spin–ordering in Ising metamagnets and in S=1 anisotropic Heisenberg models with nondiagonal spin exchange*, Graduiertenkolleg *Struktur und Dynamik heterogener Systeme* , Gerhard Mercator Universität Gesamthochschule Duisburg, Duisburg/Germany, May 11 1999

7. *Kritisches Verhalten an Oberflächen mit Ecken und Kanten (Critical behavior of surfaces with edges and corners)*, Seminar zur Theoretischen Festkörperphysik, Friedrich-Alexander-Universität Erlangen-Nürnberg, Erlangen/Germany, June 8 1999

8. *Kritisches Verhalten an Oberflächen mit Ecken und Kanten (Critical behavior of surfaces with edges and corners)*, Seminar über Probleme der Statistischen Mechanik, Freie Universität Berlin, Berlin/Germany, December 20 1999

9. *Phase transitions and conformal invariance*, 7th Workshop of Marie Curie Fellows, Paris/France, September 28 2000

10. *Phase transitions at surfaces, edges, and corners*, Europhysics Conference on Computational Physics, Aachen/Germany, September 5-8, 2001

11. *Mikrokanonische Bestimmung kritischer Exponenten (Microcanonical determination of critical exponents*, Cluster 2001, 268. WE-Heraeus-Seminar, Herzogenhorn/Germany, October 7-12 2001

12. *Mikrokanonische Bestimmung kritischer Exponenten (Microcanonical determination of critical exponents)*, Seminar über Vielteilchenphysik, Friedrich-Alexander-Universität Erlangen-Nürnberg, Erlangen/Germany, November 8 2001

13. *Phasenübergänge in begrenzten Geometrien (Phase transitions in confined geometries)*, Physikalisches Kolloquium, Friedrich-Alexander-Universität Erlangen-Nürnberg, Erlangen/Germany, December 10 2001

14. *Anisotropic scaling and generalized conformal invariance at Lifshitz points*, Workshop *Statistical Physics of non-equilibrium and disordered systems* , Nancy/France, May 29-31 2002

15. *Systems with competing interactions: bulk and surface properties*, Theorie-Kolloquium, Universität Halle-Wittenberg, Halle/Germany, June 12 2002

16. *Konkurrierende Wechselwirkungen: dünne Filme, Oberflächen, Volumensysteme (Competing interactions: thin films, surfaces, bulk systems)*, Seminar *Aktuelle Probleme der Theoretischen Physik* , Universität-Gesamthochschule Essen, Essen/Germany, July 4 2002

17. *Comportement critique dans le voisinage d'un point Lifchitz: systèmes infinis et semi-infinis (Critical behavior in the vicinity of Lifshitz points: infinite and semi-infinite systems)*, Séminaire de Physique Théorique, Université Louis Pasteur Strasbourg, Strasbourg/France, September 22 2002

18. *Altern in ferromagnetischen Spin-Modellen (Aging in ferromagnetic spin models)*, Seminar zur Theorie der kondensierten Materie, RWTH Aachen, Aachen/Germany, October 22 2002

19. *L'invariance d'échelle locale et la cinétique de séparation de phases (Local scale invariance and the dynamics of phase separation)*,
Workshop *Statistical Physics far from equilibrium and disordered systems 2003*, Nancy/France, May 21-22 2003

20. *Ageing phenomena in ferromagnets*, Research Institute for Solid State Physics and Optics of the Hungarian Academy of Sciences, Budapest, Budapest/Hungary, October 13 2003

21. *Ageing phenomena in ferromagnets*, 4th NTZ-Workshop CompPhys03, Leipzig/Germany, December 5-6 2003

22. *Dynamique hors équilibre: les phénomènes de vieillissement et le comportement d'échelles dynamique (Out-of-equilibrium dynamics: aging phenomena and dynamical scaling behavior)*, Laboratoire de Physique Théorique et Modèles Statistiques, Université Paris-Sud, Orsay/France, May 4 2004

23. *Out-of-equilibrium critical dynamics at surfaces*, Workshop *Statistical Physics of non-equilibrium and disordered systems* , Nancy/France, May 26-28 2004

24. *Ageing phenomena in non-equilibrium systems*, LEILAT04 − 14th Workshop on Lattice Field Theory, Leipzig/Germany, June 3-5 2004

25. *Ageing in the critical dynamics of spin glasses*, Lenghtscales and Heterogeneous Dynamics in Glassy Materials HETER2004, Oxford/England, September 22-25 2004 (invited poster)

26. *Out-of-equilibrium dynamical behaviour of ferromagnets*, Max-Planck-Institut für Metallforschung Stuttgart, Stuttgart/Germany, October 28 2004

27. *Microcanonical analysis of small systems*, International Symposium on Structure and Dynamics of Heterogeneous Systems SDHS 2004, Duisburg/Germany, November 25-26 2004

28. *Alterungsphänomene in Systemen fern vom Gleichgewicht (Aging phenomena far from equilibrium)*, Universität Leipzig, Leipzig/Germany, December 9 2004

29. *Alterungsphänomene und dynamisches Skalenverhalten in Systemen fern vom Gleichgewicht (Aging phenomena and dynamical scaling in systems far from equilibrium)*, Universität Bielefeld, Bielefeld/Germany, November 10 2005

30. *Cluster dissolution and reentrance in time: surprises in the short-time critical dynamics*, 6th NTZ-Workshop CompPhys05, Leipzig/Germany, December 1-2 2005

31. *Surface ageing phenomena*, Isaac Newton Institute Workshop Relaxation Dynamics of Macroscopic Systems, Cambridge/England (invited poster), January 9-13 2006

32. *Aging and dynamical scaling in nonequilibrium systems*, Virginia Tech, Blacksburg/USA, February 17 2006

33. *Ageing and dynamical scaling in nonequilibrium systems*, Katholieke Universiteit Leuven, Leuven/Belgium, February 24 2006

34. *Dynamical scaling behaviour far from equilibrium*, NIC Symposium 2006, Jülich/Germany, March 1-2 2006

35. *Symmetry-based determination of space-time functions in nonequilibrium growth processes*, International Workshop on *Fluctuation and dissipation phenomena in driven systems far from equilibrium*, Dresden/Germany, July 16-18 2007

36. *Aging phenomena in magnetic systems*, 2008 Spring Colloquium, Department of Physics and Astronomy, University of Nebraska, Lincoln, NE, February 7, 2008
invited by Prof. Christian Binek

37. *Aging/Gravity duality*, Particle, Nuclear & Astronomical Sciences Seminars, Virginia Tech, Blacksburg, VA, April 13, 2009

38. *Aging phenomena in magnetic systems*, Boulder School for Condensed Matter and Materials Physics - Nonequilibrium Statistical Mechanics: Fundamental Problems and Applications, Boulder, CO, July 6-24, 2009

39. *Aging processes far from equilibrium*, Physics Colloquium, Virginia Tech, Blacksburg, VA, September 11, 2009

40. *Aging Processes Far From Equilibrium*, Physics and Astronomy Seminar, Bucknell University, Lewisburg, PA, August 30, 2010

41. *Cyclically competing species: deterministic trajectories and stochastic evolution*, 78th Annual Meeting of the Southeastern Section of the American Physical Society, Roanoke, VA, October 19-22, 2011

42. *Aging processes in materials far from equilibrium*, Physics Seminar, University of Luxembourg, Luxembourg, December 16, 2011

43. *Equilibrium and nonequilibrium properties of artificial antiferromagnets*, Seminar on Condensed Matter Theory, Department of Physics, RWTH Aachen, Aachen, Germany, June 12, 2012

44. *Aging processes in materials far from equilibrium*, Seminar on Current Problems in Theoretical Physics, Department of Physics, Universität Duisburg-Essen, Duisburg, Germany, June 13, 2012

45. *Stochastic models for predation-prey competition*, 507. Wilhelm and Else Heraeus-Seminar *From Ecological Webs to Smart Energy Grids: Efficient Organization in Complex Networks*, Jacobs University Bremen, Bremen, Germany, June 18-22, 2012

46. *Cyclically competing species: deterministic trajectories and stochastic evolution*, 507. Wilhelm and Else Heraeus-Seminar *From Ecological Webs to Smart Energy Grids: Efficient Organization in Complex Networks*, Jacobs University Bremen, Bremen, Germany, June 18-22, 2012

47. *Non-equilibrium relaxation and aging scaling of magnetic flux lines in disordered type-II superconductors*, Theoretical Condensed Matter Physics Principal Investigators' Meeting 2012, Rockville, MD, August 19-22, 2012

48. *Aging processes in disordered materials: High-T_c superconductors and ferromagnets*, 2013 March Meeting of the American Physical Society, Baltimore, MD, March 18-22, 2013

49. *Stochastic predation-prey competition: biodiversity and species extinction*, Seminar, Università di Salerno, Salerno, Italy, June 27, 2013

50. *Aging processes in disordered materials: High-T_c superconductors and ferromagnets*, Comaruga 2013 − 9th International Workshop on Nanomagnetism and Superconductivity at the Nanoscale, Coma-ruga, Spain, July 1-5, 2013

51. *Biodiversity and species extinction: the statistical physicist's point of view*, Colloquium of the Department of Physics, Virginia Tech, Blacksburg, VA, October 11, 2013

52. *Physical aging in disordered systems*, Institute of Condensed Matter Theory Seminar at the University of Illinois in Urbana-Champaign, Urbana-Champaign, IL, March 31, 2014

53. *Stochastic predation-prey competition: biodiversity and species extinction*, Advances in Nonequilibrium Statistical Mechanics: large deviations and long-range correlations, extreme value statistics, anomalous transport and long-range interactions, Florence, Italy, May 5 - June 4, 2014 (talk given June 30, 2014).

54. *Aging processes in disordered materials: High-T_c superconductors and ferromagnets*, XIX Convegno Nazionale di Fisica Statistica e dei Sistemi Complessi, Parma, Italy, June 25-27, 2014

55. *Aging in coarsening systems with non-algebraic growth laws*, 2015 March Meeting of the German Physical Society, Berlin, Germany, March 16-20, 2015

56. *Virginia Tech's Academy of Integrated Science: Retooling Science for the 21st century*, College of Science Distinguished Speaker Series, Rochester Institute of Technology (Rochester, NY, December 15, 2016)

57. *An overview of the phenomenology of physical aging*, International Conference on Biological Aging from the Perspective of Physics, Information Science, and Life Sciences, Bremen, Germany, July 16-20, 2018

58. *Physical aging in materials: from vortex matter to skyrmion systems*, International Conference on Biological Aging from the Perspective of Physics, Information Science, and Life Sciences, Bremen, Germany, July 16-20, 2018

59. *Relaxation processes in systems of interacting skyrmions*, 2018 Theoretical Condensed Matter Physics Principal Investigators' Meeting, U.S. Department of Energy, Gaithersburg, MD, August 14-16, 2018

60. *Physical aging in systems with glassy-like dynamics: from vortex matter to skyrmion systems*, 86th Annual Meeting of the APS Southeastern Section, Wrightsville Beach, NC, November 7-9, 2019

61. *Dynamical phase transitions in the Ising ferromagnet: bulk and surface phase diagrams*, International Webinar in Statistical Physics, Department of Physics, Presidency University (India), September 27, 2020

62. *Ordering processes in skyrmion matter*, Seminar in Statistical Physics, Coventry University, March 24, 2021

Invited popular talks

1. *Physik: Forschung und Forschungskooperation (Physics: research and research cooperation)*, Informationsveranstaltung für Gymnasialschüler, Universität Erlangen-Nürnberg, Erlangen/Germany, November 24 2004

2. *Flocks of birds, cloud patterns, and all that - the physics of complex systems*, Annual Sigma Pi Sigma (Honor Society of the Society of Physics Students) Induction Dinner of the Virginia Tech Chapter of Sigma Pi Sigma, April 8 2010

Posters and contributed talks

1. B. Neubert, M. Pleimling, Th. Tentrup, R. Siems, *Polarization and p-T-phase diagram of BCCD: Interpretation in terms of frustrated Ising models* (poster), 8th International Meeting on Ferroelectricity, Gaithersburg/USA, August 1993

2. B. Neubert, M. Pleimling, R. Siems, *Ising-Modelle mit konkurrierenden Wechselwirkungen: Anwendung auf BCCD (Ising models with competing interactions: application to BCCD)* (poster), DPG-Frühjahrstagung, Münster/Germany, March 1994, Verhandl. DPG 29, 1007 (1994)

3. M. Pleimling, R. Siems, *Low temperature expansion of a Double Ising spin model* (poster), 8th European Meeting on Ferroelectricity, Nijmegen/The Netherlands, July 1995

4. B. Neubert, M. Pleimling, R. Siems, *Derivation of symmetry-based pseudo spin models for modulated materials* (poster), 9th International Meeting on Ferroelectricity, Seoul/Korea, August 24-29 1997

5. B. Neubert, M. Pleimling, R. Siems, *Ein Doppel-Ising-Spin (DIS)-Modell und Betainkalziumchloriddihydrat (BCCD): ‚Interne' Übergänge in modulierten Phasen (A double Ising spin (DIS) model and betaine calcium chloride dihydrate (BCCD): internal transitions in modulated phases)* (talk), DPG-Frühjahrstagung, Regensburg/Germany, March 23-27 1998, Verhandl. DPG (VI) 33, 669 (1998)

6. M. Pleimling, W. Selke, *Critical phenomena at surfaces, edges, and corners* (poster), Application of Field Theory to Statistical Physics: Soft Condensed Matter, Non-Equilibrium and Boundary Critical Phenomena (Satellite Meeting to STATPHYS 20), Bonn/Germany, July 15-18 1998

7. M. Pleimling, B. Neubert, R. Siems, *Properties of a frustrated Double Ising Spin Model* (poster), STATPHYS 20, Paris/France, July 20-24 1998

8. M. Pleimling, W. Selke, *Critical phenomena at surfaces, edges, and corners* (poster), STATPHYS 20, Paris/France, July 20-24 1998

9. M. Pleimling, W. Selke, *Phase transitions at surfaces, edges, and corners* (poster), MECO 24, Lutherstadt Wittenberg/Germany, March 8-10 1999 10. M. Pleimling, W. Selke, *Anomalous behaviour in the Metamagnet* $FeBr_2$ (poster), MECO 24, Lutherstadt Wittenberg/Germany, March 8-10 1999

11. R. Siems, B. Neubert, M. Pleimling, *Pseudo-spin description of modulated structures: atomistic basis, hierarchy of models, explicit results* (poster), 9th European Meeting on Ferroelectricity, Prague/Czech Republic, July 12-16 1999

12. M. Pleimling, W. Selke, *Droplets in Ising models* (poster), MECO 25, Pont-à-Mousson/France, March 9-11 2000

13. M. Pleimling, W. Selke, *Phasenübergänge im zweidimensionalen Ising-Modell mit konstanter Magnetisierung (Phase transitions in the two-dimensional Ising model with constant magnetization)* (poster), DPG-Frühjahrstagung, Regensburg/Germany, March 27-31 2000

14. M. Pleimling, W. Selke, *Kritische Phänomene an Ecken und Kanten (Critical phenomena in systems with edges and corners)* (talk), DPG-Frühjahrstagung, Regensburg/Germany, March 27-31 2000

15. M. Pleimling, M. Henkel, *Anisotropic scaling and generalized conformal invariance* (poster), Dynamics Days 2001, Dresden/Germany, June 5-8 2001

16. M. Henkel, M. Pleimling, C. Godrèche, and J.-M. Luck, *Aging and conformal invariance: exact form of the response functions* (poster), Dynamics Days 2001, Dresden/Germany, June 5-8 2001

17. M. Pleimling, A. Hüller, *Microcanonical analysis of continuous phase transitions: efficient algorithm and critical exponents* (poster), Europhysics Conference on Computational Physics, Aachen/Germany, September 5-8 2001

18. M. Henkel, M. Pleimling, *Anisotropic scaling and generalized conformal invariance at Lifshitz points* (poster), Europhysics Conference on Computational Physics, Aachen/Germany, September 5-8 2001

19. M. Pleimling, M. Henkel, *Anisotropic scaling and generalized conformal invariance* (poster), MECO-27, Sopron/Hungary, March 7-9 2002

20. M. Pleimling, A. Hüller, *Mikrokanonische Bestimmung kritischer Exponenten (Microcanonical determination of critical exponents)* (poster), DPG-Frühjahrstagung, Regensburg/Germany, March 11-15 2002

21. M. Pleimling, M. Henkel, *Neues vom ANNNI-Modell: Exponenten, konforme Invarianz und Oberflächen (News from the ANNNI model: exponents, conformal invariance, and surfaces)* (talk), DPG-Frühjahrstagung, Regensburg/Germany, March 11-15 2002

22. H. Behringer, M. Pleimling, A. Hüller, *Microcanonical analysis of classical spin systems* (poster), International Conference on Theoretical Physics, TH-2002, Paris/France, July 22-27 2002

23. M. Pleimling, M. Henkel, *Anisotropic scaling and generalized conformal invariance* (poster), International Conference on Theoretical Physics, TH-2002, Paris/France, July 22-27 2002

24. H. Behringer, M. Pleimling, A. Hüller, *Critical exponents from a cluster molecular field approximation* (poster), MECO-28, Saarbrücken/Germany, March 20-22 2003

25. M. Pleimling, *Scaling of the magnetic linear response in phase-ordering kinetics* (poster), MECO-28, Saarbrücken/Germany, March 20-22 2003

26. M. Pleimling, W. Selke *Phase diagrams of Ising films with competing interactions* (poster), MECO-28, Saarbrücken/Germany, March 20-22 2003

27. M. Pleimling, M. Henkel, M. Paessens, *Scaling of the magnetic linear response in phase-ordering kinetics* (talk), DPG-Frühjahrstagung, Dresden/Germany, March 24-28 2003

28. H. Behringer, M. Pleimling, A. Hüller, *Critical exponents from a cluster molecular field approximation* (talk), DPG-Frühjahrstagung, Dresden/Germany, March 24-28 2003

29. M. Pleimling, W. Selke, D. Catrein *Spatially modulated magnetic structures in thin films* (talk), DPG-Frühjahrstagung, Dresden/Germany, March 24-28 2003

30. M. Pleimling, *Local scale invariance as dynamical space-time symmetry in phase-ordering kinetics* (poster), Non-Equilibrium Statistical Physics in Low Dimensions and Reaction Diffusion Systems NESPHY03, Dresden/Germany, September 22 - October 10 2003

31. M. Pleimling, F. Iglói, *Out-of-equilibrium critical dynamics at surfaces: Cluster dissolution and non-algebraic correlations* (talk), DPG-Frühjahrstagung, Regensburg/Germany, March 8-12 2004

32. A. Richter, M. Pleimling, A. Hüller, *Microcanonical entropy of classical spin systems with a continuous symmetry* (talk), DPG-Frühjahrstagung, Regensburg/Germany, March 8-12 2004

33. M. Pleimling, F. Iglói, *Out-of-equilibrium critical dynamics at surfaces: Cluster dissolution and non-algebraic correlations* (poster), MECO-29, Bratislava/Slovakia, March 28 - April 1 2004

34. M. Pleimling, M. Henkel, *Dynamique hors équilibre: Les phénomènes de vieillissement et le comportement d'échelles dynamique (Out-of-equilibrium dynamics: aging phenomena and dynamical scale invariance)* (talk), Journées de la Matière Condensée 9, Nancy/France, August 30 - September 3 2004

35. M. Henkel, M. Paessens, M. Pleimling, *Comportement d'échelle de la réponse linéaire dans des systèmes vieillissants sans désordre (Scaling behavior of the linear response in aging systems without disorder)* (poster), Journées de la Matière Condensée 9, Nancy/France, August 30 - September 3 2004

36. M. Henkel, M. Pleimling, J. Unterberger, *Lokale Skaleninvarianz in Alterungsphänomenen (Local scale invariance and aging phenomena)* (talk), DPG-Frühjahrstagung, Berlin/Germany, March 4-9 2005

37. F. Baumann, M. Henkel, M. Pleimling, J. Richert, *Ageing without detailed balance: The bosonic contact and pair-contact processes* (poster), DPG-Frühjahrstagung, Dresden, March 27-31 2006

38. M. Pleimling, L. Környei, F. Iglói, *Reentrance during nonequilibrium relaxation* (talk), DPG-Frühjahrstagung, Dresden, March 27-31 2006

39. M. Pleimling, M. Henkel, I. A. Campbell, *Dynamic critical behaviour in Ising spin glasses* (talk), DPG-Frühjahrstagung, Dresden, March 27-31 2006

40. H. Behringer, M. Pleimling, *Finite-size behaviour of the microcanonical specific heat* (poster), DPG-Frühjahrstagung, Dresden, March 27-31 2006

41. M. Pleimling and M. Henkel, *Aging in disordered magnets and local scale-invariance* (talk), 96th Statistical Mechanics Conference, Rutgers University, December 17-19 2006

42. M. Pleimling, *Out-of-equilibrium dynamical behavior of ferromagnets* (talk), 20th Workshop on Recent Developments in Computer Simulational Studies in Condensed Matter Physics, Athens, GA, February 19-23 2007

43. M. Pleimling and M. Henkel, *Aging in disordered magnets and local scale-invariance* (talk), APS March Meeting 2007, Denver, Colorado, March 5-9 2007

44. F. Baumann and M. Pleimling, *Out-of-equilibrium processes in confined geometries* (talk), Spring Meeting of the German Physical Society, Regensburg/Germany (March 26-30, 2007)

45. F. Baumann and M. Pleimling, *Le modèle sphérique semi-infini* (talk), Séminaire de lécole doctorale EMMA 2007, Nancy/France (May 10, 2007)

46. F. Baumann, M. Henkel, M. Pleimling, and J. Richert, *Ageing in the bosonic contact and pair-contact processes* (talk), Workshop Statistical Physics and Low Dimensional Systems 2007, Nancy/France (May 23-25, 2007)

47. M. Pleimling, *Ageing in disordered magnets* (talk), Workshop *Fluctuations and Scaling in Materials*, StatPhys 23 Satellite Meeting, Todi/Italy, July 4-7 2007

48. F. Baumann, M. Henkel, M. Pleimling, and J. Richert, *Ageing in reaction-diffusion systems* (poster), StatPhys 23, Genova/Italy, July 9-13 2007

49. M. Pleimling, *Symmetry-based determination of space-time functions in nonequilibrium growth processes* (poster), StatPhys 23, Genova/Italy, July 9-13 2007

50. M. Henkel and M. Pleimling, *Phase-ordering kinetics in disordered two-dimensional Ising models* (talk), CompPhys07, Leipzig/Germany (November 29 December 1, 2007)

51. M. Pleimling, *Nonequilibrium critical dynamics of the two-dimensional Ising model quenched from a correlated initial state* (talk), 98th Statistical Mechanics Meeting, Rutgers University, December 16-18 2007

52. V. Elgart and M. Pleimling, *Aging Processes in reversible diffusion-limited reactions* (talk), 2008 APS March Meeting, New Orleans, LA, March 10-14, 2008

53. M. Henkel and M. Pleimling, *Ageing phenomena in the disordered Ising model* (talk), MECO 33, Wels-Puchberg/Austria, April 14-16, 2008

54. S. Dorosz and M. Pleimling, *Nonequilibrium relations in reaction-diffusion systems* (poster), International Symposium Complexity in Materials far from Equilibrium, Blacksburg, VA, May 14-16, 2008

55. V. Elgart and M. Pleimling, *Aging Processes in reversible diffusion-limited reactions* (poster), International Symposium Complexity in Materials far from Equilibrium, Blacksburg, VA, May 14-16, 2008

56. M. Henkel and M. Pleimling, *Hidden dynamical symmetries in ageing phenomena* (talk), Third Kias Conference on Statistical Physics Nonequilibrium Statistical Physics of Complex Systems, Seoul, Korea, July 1-4, 2008 57. F. Iglói and M. Pleimling, *Nonequilibrium critical dynamics of the two-dimensional Ising model quenched from a correlated initial state* (talk), CompPhys08 - 9th NTZ-Workshop on New Developments in Computational Physics, Leipzig/Germany, November 27-29, 2008

58. S. Dorosz and M. Pleimling, *Fluctuation ratios in the absence of microscopic time reversibility* (talk), Mini Workshop on Non-equilibrium Statistical Mechanics: a bridge from physics to biology, Blacksburg, VA, December 11, 2008

59. Y.-L. Chou and M. Pleimling, *Nonequilibrium growth processes with temperature dependent diffusion* (talk), Mini Workshop on Non-equilibrium Statistical Mechanics: a bridge from physics to biology, Blacksburg, VA, December 11, 2008

60. S. Dorosz and M. Pleimling, *Non reversible dynamics and the detailed fluctuation theorem* (talk), 100th Statistical Mechanics Conference, Rutgers University, New Brunswick, NJ, December 13-18, 2008

61. Y.-L. Chou and M. Pleimling, *Deposition model with temperature dependent diffusion* (talk), 100th Statistical Mechanics Conference, Rutgers University, New Brunswick, NJ, December 13-18, 2008

62. S. Dorosz and M. Pleimling, *Fluctuation ratios in the absence of microscopic time reversibility* (poster), Many-body systems far from equilibrium: Fluctuations, slow dynamics and long-range interactions International Seminar, Dresden/Germany, February 16-27, 2009

63. T. Mukherjee, M. Pleimling, and Ch. Binek, *Aging in Co/Cr superlattices* (talk), 2009 APS March Meeting, Pittsburgh, PA, March 16-20, 2009

64. N. Afzal and M. Pleimling, *Response of a simple dynamical network to stress or strain* (poster), 2009 APS March Meeting, Pittsburgh, PA, March 16-20, 2009

65. S. Dorosz and M. Pleimling, *Fluctuation ratios in reaction-diffusion systems* (talk), 2009 APS March Meeting, Pittsburgh, PA, March 16-20, 2009

66. Y.-L. Chou and M. Pleimling, *A deposition model with temperature dependent diffusion* (talk), 2009 APS March Meeting, Pittsburgh, PA, March 16-20, 2009

67. S. Dorosz and M. Pleimling, *Systems far from equilibrium* (talk), 25th Annual GSA Research Symposium 2009, Blacksburg, VA, March 25, 2009

68. N. Afzal and M. Pleimling, *Stochastic model for cytoskeleton dynamics* (poster), 25th Annual GSA Research Symposium 2009, Blacksburg, VA, March 25, 2009

69. S. Dorosz and M. Pleimling, *Fluctuation ratios in the absence of microscopic time reversibility* (talk), 2009 Boulder School for Condensed Matter and Material Physics: Nonequilibrium Statistical Mechanics − Fundamental Problems and Applications, Boulder, CO, July 6-24, 2009

70. M. Henkel and M. Pleimling, *Non-markovian global persistence in phase-ordering kinetics* (talk), CompPhys09 (Leipzig, Germany) November 26-29, 2009

71. R. K. P. Zia, M. Pleimling, and B. Schmittmann, *Convection cells driven by spontaneous symmetry breaking* (talk), 102th Statistical Mechanics Conference, Rutgers University, New Brunswick, NJ, December 13-15, 2009

72. M. Pleimling, *Characterizing steady state and transient properties of reaction-diffusion systems* (talk), 23rd Annual Workshop of the Center for Simulational Physics - Recent Developments in Computer Simulation Studies in Condensed Matter Physics, University of Georgia, Athens, GA, February 22-26, 2010

73. Y.-L. Chou, M. Pleimling, and R. K. P. Zia, *Changing growth conditions during surface growth* (talk), 2010 APS March Meeting, Portland, OR, March 15-19, 2010

74. S. Venkat and M. Pleimling, *Effects of particle mobility in one-dimensional rock-paper-scissors games* (talk), 2010 APS March Meeting, Portland, OR, March 15-19, 2010

75. M. Pleimling, B. Schmittmann, and R. K. P. Zia, *Convection cells driven by spontaneous symmetry breaking* (talk), 2010 APS March Meeting, Portland, OR, March 15-19, 2010

76. T. Mukherjee, M. Pleimling, and Ch. Binek, *Aging in magnetic superlattices* (talk), 2010 APS March Meeting, Portland, OR, March 15-19, 2010

77. M. Kastner and M. Pleimling, *Microcanonical phase diagrams of short-range ferromagnets* (talk), DPG-Frühjahrstagung, Regensburg/Germany, March 21-26, 2010

78. T. Mukherjee, M. Pleimling, and Ch. Binek, *Aging in magnetic superlattices* (talk), Spring Meeting of the Nebraska Academy of Sciences, Chadron, NE, May 14-16, 2010

79. D. Linford, M. Pleimling, and R. K. P. Zia, *Discontinuous transitions in a two-lane model (ABC model) of transport* (talk), First WLVT Research Symposium: Applications of Statistical Mechanics to Far-from Equilibrium and Biological Systems, Washington and Lee University, Lexington, VA, June 22, 2010

80. C. H. Durney, S. O. Case, M. Pleimling, and R. K. P. Zia, *Survival of the weakest or not? Variety of outcomes in a system of four species competing with cyclic dynamics* (talk), First WLVT Research Symposium: Applications of Statistical Mechanics to Far-from Equilibrium and Biological Systems, Washington and Lee University, Lexington, VA, June 22, 2010

81. N. Afzal and M. Pleimling, *Towards a study of the time-dependent response of the cytoskeleton*, Complex Driven Systems: From Statistical Physics to the Life Sciences, Blacksburg, VA, October 1-3, 2010

82. H. Park and M. Pleimling, *Aging in coarsening diluted ferromagnets*, Complex Driven Systems: From Statistical Physics to the Life Sciences, Blacksburg, VA, October 1-3, 2010

83. M. T. Shimer, M. Pleimling, and U. C. Täuber, *Nonequilibrium relaxation and scaling properties of the two-dimensional Coulomb glass in the aging regime*, Complex Driven Systems: From Statistical Physics to the Life Sciences, Blacksburg, VA, October 1-3, 2010

84. D. ben-Avraham, S. Dorosz, and M. Pleimling, *Realm of validity of the fluctuation theorem* (talk), Complex Driven Systems: From Statistical Physics to the Life Sciences, Blacksburg, VA, October 1-3, 2010

85. R. K. P. Zia, C. H. Durney, S. O. Case, and M. Pleimling, *Four species in cyclic competition* (talk), 104th Statistical Mechanics Meeting, Rutgers University, New Brunswick, NJ, December 19-21, 2010

86. C. H. Durney, S. O. Case, M. Pleimling, and R. K. P. Zia, *Mean field theory predictions for four species in cyclic competition* (talk), 104th Statistical Mechanics Meeting, Rutgers University, New Brunswick, NJ, December 19-21, 2010

87. S. O. Case, M. Pleimling, R. K. P. Zia, and C. H. Durney, *Surprises from simulations of four species in cyclic competition* (talk), 104th Statistical Mechanics Meeting, Rutgers University, New Brunswick, NJ, December 19-21, 2010

88. S. O. Case, C. H. Durney, M. Pleimling, and R. K. P. Zia, *Cyclic competition of four species: mean field theory and stochastic evolution* (talk), Second Annual Southeast Conference for Undergraduate Women in Physics, North Carolina State University, January 14-16, 2011

89. N. Afzal and M. Pleimling, *Towards a study of the time-dependent response of the cytoskeleton* (poster), Gordon Research Conference: Stochastic Physics in Biology, Ventura, CA, January 23-28, 2011

90. S. Dorosz and M. Pleimling, *Entropy production in the non-equilibrium steady states of interacting many-body systems* (talk), Simple Models for Complex Systems, 47th Winter School of Theoretical Physics, Ladek Zdroj, Poland, February 7-12, 2011

91. H. Park and M. Pleimling, *Aging in coarsening ferromagnets with site and bond disorder* (talk), 2011 APS March Meeting, Dallas, TX, March 21-25, 2011

92. M. Pleimling, F. Iglói, and L. Turban, *Nonequilibrium phase transition in a driven Potts model with friction* (talk), 2011 APPS March Meeting, Dallas, TX, March 21-25, 2011

93. C. H. Durney, S. O. Case, M. Pleimling, and R. K. P. Zia, *Mean-field theory of four species in cyclic competition* (talk), 2011 APS March Meeting, Dallas, TX, March 21-25, 2011

94. S. O. Case, C. H. Durney, M. Pleimling, and R. K. P. Zia, *Stochastic evolution of four species in cyclic competition: exact and simulation results* (talk), 2011 APS March Meeting, Dallas, TX, March 21-25, 2011

95. N. Afzal and M. Pleimling, *Time-dependent mechanical response of a network model for the cytoskeleton* (talk), 2011 APS March Meeting, Dallas, TX, March 21-25, 2011

96. M. T. Shimer, U. C. Täuber, and M. Pleimling, *Nonequilibrium relaxation and aging scaling properties of the Coulomb glass* (talk), 2011 APS March Meeting, Dallas, TX, March 21-25, 2011

97. C. H. Durney, S. O. Case, M. Pleimling, and R. K. P. Zia, *Mean-field theory of four species in cyclic competition* (talk), Virginia Tech 9th Undergraduate Research and Prospective Graduate Student Conference, Blacksburg, VA, April 15, 2011

98. S. O. Case, C. H. Durney, M. Pleimling, and R. K. P. Zia, *Stochastic evolution of four species in cyclic competition: exact and simulation results* (talk), Virginia Tech 9th Undergraduate Research and Prospective Graduate Student Conference, Blacksburg, VA, April 15, 2011

99. U. Dobramysl, M. Pleimling, and U. C. Täuber, *Vortex dynamics in disordered type II superconductors* (talk), Second WVLT Research Symposium: Applications of Statistical Physics to Far-from Equilibrium and Biological Systems, Lexington, VA, July 26, 2011

100. N. Afzal and M. Pleimling, *Time dependent mechanical response of the cytoskeleton* (talk), Second WVLT Research Symposium: Applications of Statistical Physics to Far-from Equilibrium and Biological Systems, Lexington, VA, July 26, 2011

101. C. H. Durney, S. O. Case, M. Pleimling, and R. K. P. Zia, *Cyclic Competition of four species: deterministic trajectories and stochastic results* (talk), Second WVLT Research Symposium: Applications of Statistical Physics to Far-from Equilibrium and Biological Systems, Lexington, VA, July 26, 2011

102. L. Li and M. Pleimling, *Phase transitions of the two-dimensional Ising model in contact with two heat baths* (talk), Second WVLT Research Symposium: Applications of Statistical Physics to Far-from Equilibrium and Biological Systems, Lexington, VA, July 26, 2011

103. C. H. Durney, S. O. Case, M. Pleimling, and R. K. P. Zia, *Four species in cyclic competition: mean field and stochastic results* (poster), 2011 Workshop for Young Researchers in Mathematical Biology, Ohio State University, Columbus, OH, August 29 - September 1, 2011

104. A. Roman and M. Pleimling, *Boundary conflicts and cluster coarsening: Waves of life and death in the cyclic competition of four species* (talk), 78th Annual Meeting of the Southeastern Section of the American Physical Society, Roanoke, VA, October 19-22, 2011

105. S. O. Case, C. H. Durney, M. Pleimling, and R. K. P. Zia, *Stochastic evolution of four species in cyclic competition: exact and simulation results* (talk), 78th Annual Meeting of the Southeastern Section of the American Physical Society, Roanoke, VA, October 19-22, 2011

106. D. Konrad and M. Pleimling, *The effects of mobility on the one-dimensional four-species cyclic predator-prey model* (talk), 78th Annual Meeting of the Southeastern Section of the American Physical Society, Roanoke, VA, October 19-22, 2011

107. H. Park and M. Pleimling, *Aging behavior in disordered systems* (talk), 78th Annual Meeting of the Southeastern Section of the American Physical Society, Roanoke, VA, October 19-22, 2011

108. N. Afzal and M. Pleimling, *Time-dependent mechanical response of the cytoskeleton* (talk), 78th Annual Meeting of the Southeastern Section of the American Physical Society, Roanoke, VA, October 19-22, 2011

109. L. Li and M. Pleimling, *Non-equilibrium phases of the two-dimensional Ising model in contact with two heat baths* (talk), 78th Annual Meeting of the Southeastern Section of the American Physical Society, Roanoke, VA, October 19-22, 2011

110. U. Dobramysl, M. Pleimling, and U. C. Täuber, *Langevin molecular dynamics of driven magnetic flux lines* (talk), 78th Annual Meeting of the Southeastern Section of the American Physical Society, Roanoke, VA, October 19-22, 2011

111. D. Linford, T. Richards, and M. Pleimling, *A two-Lane model with anomalous slow dynamics* (talk), 78th Annual Meeting of the Southeastern Section of the American Physical Society, Roanoke, VA, October 19-22, 2011

112. N. Afzal and M. Pleimling, *Time-dependent mechanical response of the cytoskeleton* (poster), Dynamics Days 2012, Baltimore, MD, January 4-7, 2012

113. J. J. Tyson, M. Pleimling, T. E. Long, J. Rossi, K. D. McConnell, A. E. Smith, H. Shimada-Beltran, and J. C. Sible, *Integrating the Undergraduate Science Curriculum* (talk), 4th Annual Conference on Higher Education Pedagogy, Blacksburg, VA, February 8-10, 2012

114. H. Park and M. Pleimling, *Aging behavior in disordered and frustrated spin systems* (talk), 2012 March Meeting of the American Physical Society, Boston, MA, February 27-March 2, 2012

115. U. Dobramysl, M. Pleimling, and U. C. Täuber, *Non-equilibrium vortex relaxation in disordered type-II superconductors* (poster), 2012 March Meeting of the American Physical Society, Boston, MA, February 27-March 2, 2012

116. N. Afzal, J. Waugh, and M. Pleimling, *Aging processes in reversible reaction-diffusion systems* (talk), 2012 March Meeting of the American Physical Society, Boston, MA, February 27-March 2, 2012

117. H. Park and M. Pleimling, *Non-universal local critical exponents at a non-equilibrium phase transition* (talk), 2012 March Meeting of the American Physical Society, Boston, MA, February 27-March 2, 2012

118. N. Afzal and M. Pleimling, *Aging phenomena in a network model of the cytoskeleton* (talk), 2012 March Meeting of the American Physical Society, Boston, MA, February 27-March 2, 2012

119. D. ben-Avraham, S. Dorosz, and M. Pleimling, *Entropy production in non-equilibrium steady states* (talk), 2012 March Meeting of the American Physical Society, Boston, MA, February 27-March 2, 2012

120. L. Li and M. Pleimling, *Non-equilibrium modulated phases in a system with local energy input* (talk), 2012 March Meeting of the American Physical Society, Boston, MA, February 27-March 2, 2012

121. D. Konrad and M. Pleimling, *The effects of mobility on the one-dimensional four-species cyclic predator-prey model* (talk), 2012 March Meeting of the American Physical Society, Boston, MA, February 27-March 2, 2012

122. A. Roman and M. Pleimling, *Boundary conflicts and cluster coarsening: Waves of life and death in the cyclic competition of four species* (talk), 2012 March Meeting of the American Physical Society, Boston, MA, February 27-March 2, 2012

123. S. O. Case, C. H. Durney, M. Pleimling, and R. K. P. Zia, *Varieties of extinction scenarios when four species compete cyclically* (talk), 2012 March Meeting of the American Physical Society, Boston, MA, February 27-March 2, 2012

124. N. Afzal and M. Pleimling, *Aging processes in the cytoskeleton* (talk), 2012 Boulder School for Condensed Matter and Materials Physics - Polymers in Soft and Biological Matter, Boulder, CO, July 9 − August 3, 2012

125. H. Park and M. Pleimling, *Surface critical behavior at a nonequilibrium phase transition* (talk), 79th Annual Meeting of the Southeastern Section of the American Physical Society, Tallahassee, FL, November 14-17, 2012

126. N. Borchers, M. Pleimling, and R. K. P. Zia, *Non-equilibrium steady states in a two-temperature Ising ring with Kawasaki dynamics* (talk), 79th Annual Meeting of the Southeastern Section of the American Physical Society, Tallahassee, FL, November 14-17, 2012

127. U. Dobramysl, H. Assi, M. Pleimling, and U. C. Täuber, *Relaxation dynamics of magnetic flux lines subject to correlated disorder* (talk), 79th Annual Meeting of the Southeastern Section of the American Physical Society, Tallahassee, FL, November 14-17, 2012

128. B. Intoy, S. Dorosz, and M. Pleimling, *Neutral species domination on different lattices for the symmetric stochastic cyclic competition of four species* (talk), 79th Annual Meeting of the Southeastern Section of the American Physical Society, Tallahassee, FL, November 14-17, 2012

129. U. Dobramysl, H. Assi, M. Pleimling, and U. C. Täuber, *Non-equilibrium relaxation of vortex lines in disordered type-II superconductors* (talk), 2013 March Meeting of the American Physical Society, Baltimore, MD, March 18-22, 2013

130. H. Assi, U. Dobramysl, M. Pleimling, and U. C. Täuber, *Langevin dynamics simulations for the steady-state and relaxation properties of magnetic flux lines in type-II superconductors* (poster), 2013 March Meeting of the American Physical Society, Baltimore, MD, March 18-22, 2013

131. N. Afzal and M. Pleimling, *Aging processes in systems with anomalous slow dynamics* (talk), 2013 March Meeting of the American Physical Society, Baltimore, MD, March 18-22, 2013

132. L. Li and M. Pleimling, *Three-dimensional Potts systems with magnetic friction* (talk), 2013 March Meeting of the American Physical Society, Baltimore, MD, March 18-22, 2013

133. B. Intoy, S. Dorosz, and M. Pleimling, *Neutral species domination on different lattices for the symmetric stochastic cyclic competition of four species* (talk), 2013 March Meeting of the American Physical Society, Baltimore, MD, March 18-22, 2013

134. A. Roman, D. Dasgupta, and M. Pleimling, *Biodiversity and co-existence of competing species* (talk), 2013 March Meeting of the American Physical Society, Baltimore, MD, March 18-22, 2013

135. N. Borchers, M. Pleimling, and R. K. P. Zia, *Non-equilibrium steady states in two-temperature Ising models with Kawasaki dynamics* (talk), 2013 March Meeting of the American Physical Society, Baltimore, MD, March 18-22, 2013

136. J. Mayberry and M. Pleimling, *Equilibrium properties of Ising metamagnetic films* (talk), 2013 March Meeting of the American Physical Society, Baltimore, MD, March 18-22, 2013

137. J. Mayberry and M. Pleimling, *Equilibrium properties of Ising metamagnetic films* (poster), 2013 Virginia Tech Undergraduate Research Conference, Blacksburg, VA, April 19, 2013

138. M. O. Brown and M. Pleimling, *Understanding domain growth in complex systems* (poster), 2013 Virginia Tech Undergraduate Research Conference, Blacksburg, VA, April 19, 2013

139. H. Assi, U. Dobramysl, M. Pleimling, and U. C. Täuber, *Monte Carlo and Langevin dynamics simulations for the steady-state and relaxation properties of magnetic flux lines in type-II superconductors* (poster), STATPHYS 25, Seoul, Korea, July 22-27, 2013

140. B. Intoy and M. Pleimling, *Extinction in four species cyclic competition* (poster), International Seminar *Small Systems far from Equilibrium: Order, Correlations, and Fluctuations*, Dresden, Germany, October 14-18, 2013

141. S. Mowlaei, A. Roman, and M. Pleimling, *A mean field approach to Z_N-enhanced generalized May-Leonard models* (talk), 80th Annual Meeting of the Southeastern Section of the American Physical Society, Bowling Green, KY, November 20-23, 2013

142. L. Li and M. Pleimling, *Magnetic friction between two three-dimensional Potts systems* (talk), 80th Annual Meeting of the Southeastern Section of the American Physical Society, Bowling Green, KY, November 20-23, 2013

143. B. Intoy and M. Pleimling, *Extinction in four species cyclic competition* (talk), 80th Annual Meeting of the Southeastern Section of the American Physical Society, Bowling Green, KY, November 20-23, 2013

144. H. Assi, U. Dobramysl, M. Pleimling, and U. C. Täuber, *Non-equilibrium relaxation properties of vortex lines in disordered type-II superconductors* (talk), 80th Annual Meeting of the Southeastern Section of the American Physical Society, Bowling Green, KY, November 20-23, 2013

145. G. Long, T. E. Long, N. Sou, J. P. Morgan, J. J. Tyson, and M. Pleimling, *Integrated Science Curriculum* (poster), 2014 Conference on Higher Education Pedagogy, Blacksburg, VA, February 5-7, 2014.

146. B. Intoy and M. Pleimling, *Extinction in four species cyclic competition* (soundbite), Soft Matter Workshop, James Madison University, Harrisonburg, VA, February 11, 2014.

147. H. Assi, H. Chaturvedi, M. Pleimling, and U. C. Täuber, *Quenching effects on flux line dynamics in type-II superconductors* (soundbite), Soft Matter Workshop, James Madison University, Harrisonburg, VA, February 11, 2014.

148. H. Chaturvedi, H. Assi, M. Pleimling, and U. C. Täuber, *Driven magnetic vortices in a type-II superconductors* (soundbite), Soft Matter Workshop, James Madison University, Harrisonburg, VA, February 11, 2014.

149. H. Assi, U. Dobramysl, M. Pleimling, and U. C. Täuber, *The effects of magnetic field and temperature quenches on non-equilibrium relaxation properties of vortex lines in type-II superconductors* (talk), 2014 March Meeting of the American Physical Society, Denver, Co, March 3-7, 2014

150. A. Roman and M. Pleimling, *The fate of complex ecologies: How do species organize? An exact method* (talk), 2014 March Meeting of the American Physical Society, Denver, Co, March 3-7, 2014

151. B. Intoy and M. Pleimling, *Coarsening and biodiversity in cyclically competing species* (talk), 2014 March Meeting of the American Physical Society, Denver, Co, March 3-7, 2014

152. N. Borchers, R. K. P. Zia, and M. Pleimling, *Non-equilibrium transitions and critical points in a two-temperature Ising model* (talk), 2014 March Meeting of the American Physical Society, Denver, Co, March 3-7, 2014

153. L. Li and M. Pleimling, *Magnetic friction between a Potts wedge and a Potts block in three dimensions* (talk), 2014 March Meeting of the American Physical Society, Denver, Co, March 3-7, 2014

154. H. Chaturvedi, U. Dobramysl, M. Pleimling, and U. C. Täuber, *Driven magnetic vortices in a type-II superconductor: Relaxation following sudden parameter quenches* (poster), 2014 March Meeting of the American Physical Society, Denver, Co, March 3-7, 2014

155. J. Mayberry and M. Pleimling, *Aging properties of cyclically competing species* (poster), 2014 Virginia Tech Undergraduate Research Conference, Blacksburg, VA, April 18, 2014

156. U. C. Täuber and M. Pleimling, *Non-equilibrium relaxation and aging scaling of magnetic flux lines in disordered type-II superconductors* (poster), 2014 Theoretical Condensed Matter Physics Principal Investigators' Meeting, U.S. Department of Energy, Gaithersburg, MD, August 11-13, 2014

157. H. Assi, U. Dobramysl, M. Pleimling and U. C. Täuber, *Relaxation dynamics of vortex lines in disordered type-II superconductors following magnetic field and temperature quenches*, Virginia Soft Matter Workshop II, Blacksburg, VA, October 4, 2014

158. H. Chaturvedi, H. Assi, U. Dobramysl, M. Pleimling and U. C. Täuber, *Driven magnetic vortices*, Virginia Soft Matter Workshop II, Blacksburg, VA, October 4, 2014

159. N. Borchers, M. Pleimling, and R. K. P. Zia, *Non-equilibrium statistical mechanics of a two-temperature Ising ring with conserved dynamics*, Virginia Soft Matter Workshop II, Blacksburg, VA, October 4, 2014

160. B. Intoy and M. Pleimling, *Mixed strategy in cyclic competition*, Virginia Soft Matter Workshop II, Blacksburg, VA, October 4, 2014

161. B. Brown and M. Pleimling, *The response of empty sites in cyclic competition*, Virginia Soft Matter Workshop II, Blacksburg, VA, October 4, 2014

162. B. Miles and M. Pleimling, *Stochastic relations of four species in cyclic competition*, Virginia Soft Matter Workshop II, Blacksburg, VA, October 4, 2014

163. A. Roman and M. Pleimling, *Theory of pattern formation in population dynamics*, Virginia Soft Matter Workshop II, Blacksburg, VA, October 4, 2014

164. X. Wang and M. Pleimling, *Transition between different search patterns in human online search behavior* (talk), 81th Annual Meeting of the Southeastern Section of the American Physical Society, Columbus, SC, November 12-15, 2014

165. H. Assi, U. Dobramysl, M. Pleimling and U. C. Täuber, *Effect of field quenches on the relaxation dynamics of vortex lines in disordered type-II superconductors* (talk), 81th Annual Meeting of the Southeastern Section of the American Physical Society, Columbus, SC, November 12-15, 2014

166. H. Chaturvedi, H. Assi, U. Dobramysl, M. Pleimling and U. C. Täuber, *Effect of current quenches on the dynamics of magnetic flux lines in type-II superconductors* (talk), 81th Annual Meeting of the Southeastern Section of the American Physical Society, Columbus, SC, November 12-15, 2014

167. H. Chaturvedi, H. Assi, U. Dobramysl, M. Pleimling and U. C. Täuber, *Vortex relaxation in type-II superconductors following current quenches* (talk), 2015 March Meeting of the American Physical Society, San Antonio, TX, March 2-6, 2015

168. H. Assi, H. Chaturvedi, M. Pleimling, U. C. Täuber and U. Dobramysl, *Effects of magnetic field quenches on the relaxation dynamics of vortex lines in disordered type-II superconductors* (talk), 2015 March Meeting of the American Physical Society, San Antonio, TX, March 2-6, 2015

169. U. C. Täuber, U. Dobramysl, and M. Pleimling, *Pinning time statistics for vortex lines in disordered environments* (talk), 2015 March Meeting of the American Physical Society, San Antonio, TX, March 2-6, 2015

170. B. Intoy and M. Pleimling, *Mixed Strategies in cyclic competition* (talk), 2015 March Meeting of the American Physical Society, San Antonio, TX, March 2-6, 2015

171. B. Brown and M. Pleimling, *Spatial games with cyclic interactions: the response of empty sites* (talk), 2015 March Meeting of the American Physical Society, San Antonio, TX, March 2-6, 2015

172. S. Esmaeili and M. Pleimling, *Responses of many-species predator-prey systems to perturbations* (talk), 2015 March Meeting of the American Physical Society, San Antonio, TX, March 2-6, 2015

173. X. Wang and M. Pleimling, *Transition between different search patterns in human online search behavior* (talk), 2015 March Meeting of the American Physical Society, San Antonio, TX, March 2-6, 2015

174. S. Esmaeili and M. Pleimling, *Response of many species systems to perturbation* (talk), 82nd Annual Meeting of the APS Southeastern Section, Mobile, AL, November 1821, 2015

175. S. Esmaeili and M. Pleimling, *The effects of sudden changes in environmental conditions on the non-equilibrium relaxation of ecological systems* (talk), 2016 March Meeting of the American Physical Society, Baltimore, MD, March 14-18, 2016

176. H. Assi, H. Chaturvedi, M. Pleimling, and U. C. Täuber, *Effects of sudden density changes in disordered superconductors and semiconductors* (poster), 2016 March Meeting of the American Physical Society, Baltimore, MD, March 14-18, 2016

177. H. Chaturvedi, U. Dobramysl, H. Assi, M. Pleimling, and U. C. Täuber, *Flux line non-equilibrium relaxation kinetics following current quenches in disordered type-II superconductors* (talk), 2016 March Meeting of the American Physical Society, Baltimore, MD, March 14-18, 2016

178. X. Wang and M. Pleimling, *Comparison of human mobility patterns in different settings* (talk), 2016 March Meeting of the American Physical Society, Baltimore, MD, March 14-18, 2016

179. B. Brown and M. Pleimling, *Relaxation dynamics of interacting skyrmions in thin films* (poster), StatPhys 26 - Statistical Physics Conference Satellite: Non-equilibrium dynamics in classical and quantum systems: From quenches to slow relaxations, Pont-a-Mousson, France, July 13-15, 2016

180. B. Brown and M. Pleimling, *Relaxation dynamics of interacting skyrmions in thin films* (poster), StatPhys 26, Lyon, France, July 18-22, 2016

181. U. C. Täuber, H. Assi, H. Chaturvedi, and M. Pleimling, *Non-equilibrium relaxation dynamics of flux lines in disordered type-II superconductors* (talk), StatPhys 26, Lyon, France, July 18-22, 2016

182. B. Brown and M. Pleimling, *Relaxation dynamics of interacting skyrmions in thin films* (talk), 83rd Annual Meeting of the APS Southeastern Section, Charlottesville, VA, November 10-12, 2016

183. H. Chaturvedi, H. Assi, U. Dobramysl, M. Pleimling, and U. C. Täuber, *Flux line dynamics following current quenches in disordered type-II superconductors* (talk), 83rd Annual Meeting of the APS Southeastern Section, Charlottesville, VA, November 10-12, 2016

184. A. Azizi and M. Pleimling, *Aging properties of Voter models* (talk), 83rd Annual Meeting of the APS Southeastern Section, Charlottesville, VA, November 10-12, 2016

185. S. Esmaeili, D. Labavic, H. Meyer-Ortmanns, and M. Pleimling, *Aging in a system composed of Kuramoto oscillators* (talk), 83rd Annual Meeting of the APS Southeastern Section, Charlottesville, VA, November 10-12, 2016

186. B. Brown and M. Pleimling, *Relaxation dynamics of interacting skyrmions in thin films* (talk), 2017 March Meeting of the American Physical Society, New Orleans, LA, March 13-17, 2017

187. S. Esmaeili, D. Labavíc, H. Meyer-Ortmanns, and M. Pleimling, *Response to an external field of a system of coupled Kuramoto osciallators* (talk), 2017 March Meeting of the American Physical Society, New Orleans, LA, March 13-17, 2017

188. H. Chaturvedi, H. Assi, U. Dobramysl, M. Pleimling, and U. C. Täuber, *Flux line relaxation kinetics following current quenches in disordered type-II superconductors* (talk), 2017 March Meeting of the American Physical Society, New Orleans, LA, March 13-17, 2017

189. B. Brown, S. Esmaeili,and M. Pleimling, *Cyclic predator-prey games of cyclic species* (poster), 2017 Symposium of the Center of Soft Matter and Biological Physics, Virginia Tech, Blacksburg, VA, May 17, 2017

190. S. Esmaeili and M. Pleimling, *Physical aging in a system composed of coupled Kuramoto osciallators* (poster), 2017 Symposium of the Center of Soft Matter and Biological Physics, Virginia Tech, Blacksburg, VA, May 17, 2017

191. S. Esmaeili, D. Labavić, H. Meyer-Ortmanns, and M. Pleimling, *Breaking of time translation invariance in a deterministic system of Kuramoto oscillators* (talk), 2018 March Meeting of the American Physical Society, Los Angeles, CA, March 5-9, 2018

192. M. Pleimling, *Beyond rock-paper-scissors: novel properties in spatial six species games* (talk), 2018 Symposium of the Center of Soft Matter and Biological Physics, Virginia Tech, Blacksburg, VA, May 16-17, 2018

193. J. Czak and M. Pleimling, *Dynamics of the directed Ising model* (poster), 2018 Symposium of the Center of Soft Matter and Biological Physics, Virginia Tech, Blacksburg, VA, May 16-17, 2018

194. A. Azizi and M. Pleimling, *Microscopic description of a generalized voter model* (poster), 2018 Symposium of the Center of Soft Matter and Biological Physics, Virginia Tech, Blacksburg, VA, May 16-17, 2018

195. S. Esmaeili and M. Pleimling, *An exploration of the characteristics of a system composed of coupled Kuramoto oscillators* (poster), 2018 Symposium of the Center of Soft Matter and Biological Physics, Virginia Tech, Blacksburg, VA, May 16-17, 2018

196. R. Baker and M. Pleimling, *Effect of habitat structure on a three-species cyclic game* (poster), 2018 Symposium of the Center of Soft Matter and Biological Physics, Virginia Tech, Blacksburg, VA, May 16-17, 2018

197. B. L. Brown and M. Pleimling, *Dynamically generated hierarchies in games of competition* (poster), 2018 Symposium of the Center of Soft Matter and Biological Physics, Virginia Tech, Blacksburg, VA, May 16-17, 2018

198. B. L Brown and M. Pleimling, *The effect of the Magnus force on skyrmion dynamics* (talk), 6th Virginia Soft Matter Workshop, Virginia Tech, Blacksburg, VA, September 22, 2018

199. S. Esmaeili and M. Pleimling, *An exploration of characteristics of a system of Kuramoto oscillators* (talk), 6th Virginia Soft Matter Workshop, Virginia Tech, Blacksburg, VA, September 22, 2018

200. A. Azizi, J. Stidham, and M. Pleimling, *Dynamical properties at Voter critical points* (talk), 85th Annual Meeting of the APS Southeastern Section, Knoxville, TN, November 8-10, 2018

201. S. Esmaeili, D. Labavić, H. Meyer-Ortmanns, and M. Pleimling, *Features of multistability in a system of repulsively coupled Kuramoto oscillators* (talk), 85th Annual Meeting of the APS Southeastern Section, Knoxville, TN, November 8-10, 2018

202. Priyanka and M. Pleimling, *Numerical studies on control of surface roughness in the KPZ equation* (talk), 85th Annual Meeting of the APS Southeastern Section, Knoxville, TN, November 8-10, 2018

203. B. L. Brown, U. C. Täuber, and M. Pleimling, *Relaxation dynamics in magnetic skyrmions with quenched disorder* (talk), 85th Annual Meeting of the APS Southeastern Section, Knoxville, TN, November 8-10, 2018

204. S. Esmaeili, D. Labavić, H. Meyer-Ortmanns, and M. Pleimling, *Features of a rich attractor space in a system of repulsively Kuramoto oscillators* (talk), 2019 March Meeting of the American Physical Society, Boston, MA, March 4-8, 2019

205. A. Azizi, J. Stidham, and M. Pleimling, *A stochastic microscopic model describing the continuous Generalized Voter Model* (talk), 2019 March Meeting of the American Physical Society, Boston, MA, March 4-8, 2019

206. J. Stidham, A. Azizi, and M. Pleimling, *Dynamic critical properties of non-equilibrium Potts models with absorbing states* (talk), 2019 March Meeting of the American Physical Society, Boston, MA, March 4-8, 2019

207. B. L. Brown, U. C. Täuber, and M. Pleimling, *Relaxation dynamics in magnetic skyrmions with quenched disorder* (talk), 2019 March Meeting of the American Physical Society, Boston, MA, March 4-8, 2019

208. Priyanka, U. C. Täuber, and M. Pleimling, *Numerical study for controlling surface roughening in KPZ growth process* (talk), 2019 March Meeting of the American Physical Society, Boston, MA, March 4-8, 2019

209. Priyanka, U. C. Täuber, and M. Pleimling, *Feedback control of surface roughness in the one-dimensional KPZ growth process* (talk), 2019 Symposium of the Center of Soft Matter and Biological Physics, Virginia Tech, Blacksburg, VA, May 22-23, 2019

210. A. Azizi and M. Pleimling, *Machine learning: the Ising model with conserved dynamics* (poster), 2019 Symposium of the Center of Soft Matter and Biological Physics, Virginia Tech, Blacksburg, VA, May 22-23, 2019

211. J. Czak and M. Pleimling, *Control theory applied to reaction-diffusion systems* (poster), 2019 Symposium of the Center of Soft Matter and Biological Physics, Virginia Tech, Blacksburg, VA, May 22-23, 2019

212. J. Stidham and M. Pleimling, *Ordering in magnetic Skyrmion lattices* (poster), 2019 Symposium of the Center of Soft Matter and Biological Physics, Virginia Tech, Blacksburg, VA, May 22-23, 2019

213. H. Chaturvedi, H. Assi, U. Dobramysl, B. L. Brown, M. Pleimling, and U. C. Täuber, *Nonequilibrium relaxation and critical aging of flux lines following current quenches* (talk), 15th International Workshop on Magnetism and Superconductivity at the Nanoscale, Coma-Ruga, Spain, June 30 - July 5, 2019

214. Priyanka, U. C. Täuber, and M. Pleimling, *Numerical study for controlling surface roughening in the KPZ growth process* (poster), Workshop The many facets of non-equilibrium physics: from many- body theory to quantum thermodynamics, Mazara del Vallo, Sicily (Italy), July 8-11, 2019

215. J. Czak, C. Mackert, and M. Pleimling, *Investigation of Gray-Scott model regimes through parameter adjustment* (poster), 7th Annual Virginia Soft Matter Workshop, Charlottesville, VA, September 7, 2019

216. J. Stidham and M. Pleimling, *Ordering in magnetic skyrmion lattices* (talk), 86th Annual Meeting of the APS Southeastern Section, Wrightsville Beach, NC, November 7-9, 2019

217. J. Czak, C. Mackert, and M. Pleimling, *Control applied to pattern formation in nonlinear reaction-diffusion systems* (talk), 86th Annual Meeting of the APS Southeastern Section, Wrightsville Beach, NC, November 7-9, 2019

218. Priyanka, U. C. Täuber, and M. Pleimling, *Understanding the control process for nonequilibrium systems using scaling theory* (talk), 2020 March Meeting of the American Physical Society, Denver, CO, March 2-6, 2020 (cancelled because of COVID-19)

219. J. Stidham and M. Pleimling, *Ordering in magnetic Skyrmion lattices* (talk), 2020 March Meeting of the American Physical Society, Denver, CO, March 2-6, 2020 (cancelled because of COVID-19)

220. J. Czak and M. Pleimling, *Creating novel patterns with localized control in non-linear reaction-diffusion systems* (talk), 2020 March Meeting of the American Physical Society, Denver, CO, March 2-6, 2020 (cancelled because of COVID-19)

221. M. Pleimling, *Creating order out of chaos: locol control of reaction-diffusion systems* (talk), Center for Soft Matter and Biological Physics Virtual Symposium 2020, Blacksburg, VA, May 20, 2020

222. Priyanka, U. C. Täuber, and M. Pleimling, *Control of the surface roughness during a growth process described by the Kardar-Parisi-Zhang equation* (talk), 2021 March Meeting of the American Physical Society, Virtual, March 15-19, 2021.

223. H. Mir, J. Stidham, and M. Pleimling, *Emerging spatio-temporal patterns in cyclic predator-prey systems with habitats* (talk), 2021 March Meeting of the American Physical Society, Virtual, March 15-19, 2021.

224. J. Czak and M. Pleimling, *Creating novel patterns with spatially localized perturbations in non-linear reaction-diffusion systems* (talk), 2021 March Meeting of the American Physical Society, Virtual, March 15-19, 2021.

225. J. Stidham and M. Pleimling, *Late stages in the ordering of magnetic skyrmion lattices* (talk), 2021 March Meeting of the American Physical Society, Virtual, March 15-19, 2021.