curriculum vitae page 1 of 3

Stefan Müller

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positions

• Korea Institute for Advanced Study, Seoul, Republic of Korea, july 2008-present

· research fellow (postdoc), school of mathematics

education

- University of Wisconsin Madison, WI, USA, 2002-2008
 - · Ph.D. in mathematics, 18 may 2008
 - · thesis title: the group of Hamiltonian homeomorphisms and C⁰-symplectic topology
 - · thesis advisor: Yong-Geun Oh
 - · M.A. in mathematics, 21 december 2003
- Rheinische Friedrich-Wilhelms Universität, Bonn, Germany, 1999-2002
 - · Diplomstudiengang Mathematik, Vordiplom september 2001

research and interests

- Topological Hamiltonian and contact dynamics
- Symplectic and contact geometry and topology
- Topological dynamics

publications

- Helicity of vector fields preserving a regular contact form and topologically conjugate smooth dynamical systems, with Peter Spaeth, to appear in Ergod. Th. & Dynam. Sys., 35 pages, preprint at arXiv:1106.1968v2 [math.SG]
- On properly essential classical conformal diffeomorphism groups, with Peter Spaeth, to appear in Ann. of Global Anal. and Geom., 11 pages, online first DOI 10.1007/s10455-011-9304-y, November 2011
- The group of Hamiltonian homeomorphisms in the L^{∞} -norm, J. Korean Math. Soc. 45 (2008), no. 6, 1769-1784

curriculum vitae page 2 of 3

• The group of Hamiltonian homeomorphisms and C⁰-symplectic topology, with Yong-Geun Oh, J. Symp. Geom. 5 (2007), no. 2, 167-219 (Festschrift in honor of Dusa McDuff)

arXiv preprints

- Topological contact dynamics II: topological automorphisms, contact homeomorphisms, and non-smooth contact dynamical systems, with Peter Spaeth, 39 pages, arXiv:1203.4655v1 [math.SG]
- Topological contact dynamics I: symplectization and applications of the energy-capacity inequality, with Peter Spaeth, 44 pages, arXiv:1110.6705v2 [math.SG]
- A note on the volume flux of smooth and continuous strictly contact isotopies, 8 pages, arXiv:1107.4869v1 [math.SG]
- Approximation of volume preserving homeomorphisms by volume preserving diffeomorphisms, 8 pages, arXiv:0901.1002v3 [math.DS]

invited and contributed talks

- Jahrestagung der Deutschen Mathematiker-Vereinigung, Geometrie und Topologie Sektion, Universität zu Köln, Germany, 21 september 2011
- GESTA 2011: New Trends in Symplectic and Contact Geometry, CIEM in Castro Urdiales, Spain, 29 june 2011
- Geometry Seminar, Seoul National University, Republic of Korea, fall 2010
- International Conference on Symplectic, Contact, and Low Dimensional Topology, Seoul National University, Republic of Korea, 10 november 2009
- Algebra/Geometry/Topology Seminar, University of Melbourne, Australia, 16 july 2009
- The 6th KWMS International Conference, Korea Institute for Advanced Study, Seoul, Republic of Korea, 19 june 2009
- East Asian Symplectic Conference 2009, Institute of Mathematics, Academia Sinica, Taipei, Taiwan, 6 may 2009
- Symplectic Seminar Lecture Series: spectral invariants in Hamiltonian Floer theory, Seoul National University, Republic of Korea, fall / winter 2008 (twelve lectures)
- Symplectic Topology Seminar, Penn State University, State College, PA, USA, 29 november 2007
- Joint Summer Research Conference, Snowbird Resort, Utah, USA, 2 july 2007

curriculum vitae page 3 of 3

teaching and mentoring experience

- Symplectic Seminar Lecture Series, fall / winter 2008 (see invited talks)
- VIGRE summer enhancement program for first and second year graduate students, summer 2007; prepared and taught 5-week geometry and topology qualifying exam preparation
- *lectures* (teacher)
 - · summer collegiate experience, calculus with algebra & trigonometry, 2007
 - · intermediate algebra, spring 2007
 - · trigonometry, spring 2004, fall 2004, summer 2005
- discussion sections (teaching assistant)
 - · finite mathematics, fall 2006
 - · calculus & analytic geometry I and II, fall 2003, 2005, 2007, spring 2005
- MathLab drop-in tutorial program, fall and spring 2005 and 2007
- "What are you expected to know in your math class?" workshop for students in calculus & analytic geometry III, fall 2007
- VIGRE graduate participation seminar geometry & topology, University of Wisconsin -Madison, organizer, spring and fall 2007

fellowships and miscellaneous

- research fellowship, Korea Institute for Advanced Study, july 2008-2012
- VIGRE summer enhancement program teaching fellowship, University of Wisconsin -Madison, summer 2007
- research assistant, University of Wisconsin Madison, spring 2006, 2008
- Rheinische Friedrich-Wilhelms Universität Bonn *international office fellowship* to visit the University of Wisconsin Madison, 2002-2003
- referee for several research papers
- editor of KIAS newsletter, 2009 and 2010
- member of the American Mathematical Society, since early graduate school
- member of the Korean Mathematical Society 대한수학회, since 2008
- languages: English, deutsch (German), français (French), 한국어 (Korean)