
Fakultät für Mathematik
Universität Regensburg
Regensburg, Germany

Phone: +49 (0) 941 943 2797
e-mail: stefan.friedl@ur.de

Name: Stefan Friedl
Citizenship: German
Date of Birth: March 23rd 1973
Research Interests: Knot theory, low-dimensional topology,
symplectic 4-manifolds and related algebra

Current Position

- W2 Professor (since October 2013)
Fakultät für Mathematik, Universität Regensburg, Regensburg, Germany

Previous Positions

- W2 Professor (October 2010 – September 2013)
Mathematisches Institut, Universität zu Köln, Köln, Germany
- Assistant Professor (August 2008 – September 2010)
Department of Mathematics, University of Warwick, Coventry, United Kingdom
- CRM-ISM Postdoctoral Fellow (October 2006 - July 2008)
Département de Mathématiques, Université du Québec à Montréal, Montréal, Canada
- G. C. Evans Instructor (July 2004 – June 2006)
Department of Mathematics, Rice University, Houston, USA
- Postdoctoral Fellow (October 2003 – March 2004)
Department of Mathematics, Ludwig-Maximilian University, Munich, Germany

Education

- Ph.D., Mathematics, Brandeis University, May 2003.
- M.A., Mathematics, Brandeis University, May 2000.
- Staatsexamen für Lehramt am Gymnasium in Mathematik und Physik, Regensburg University, Germany, December 1998.
- Abitur, Benedikt-Stattler Gymnasium, Bad Kötzing, Juli 1992.

Alternative civilian service

- St. Josef Hospital, Bad Kötzing (July 1992 – September 1993).

Publications and Preprints

1. *Eta invariants as sliceness obstructions and their relation to Casson-Gordon invariants*, Algebraic and Geometric Topology, Vol. 4: 893-934 (2004).
2. *New topologically slice knots* (with Peter Teichner), Geometry and Topology, Volume 9, Paper no. 48: 2129–2158 (2005)
3. *Full signature invariants for $L_0(F(t))$* , Proceedings of the American Mathematical Society 133: 647-653 (2005).
4. *L^2 -eta-invariants and their approximation by unitary eta-invariants*, Mathematical Proceedings of the Cambridge Philosophical Society 138: 327-338 (2005).
5. *Link concordance, boundary link concordance and eta invariants*, Mathematical Proceedings of the Cambridge Philosophical Society 138: 437-460 (2005).
6. *Algorithm for finding boundary link Seifert matrices*, Journal of Knot Theory and Its Ramifications, Vol. 15, No. 5, 601–612 (2006).
7. *Thurston norm, fibered manifolds and twisted Alexander polynomials* (with Taehee Kim), Topology 45: 929-953 (2006)
8. *Reidemeister torsion, the Thurston norm and Harvey's invariants*, Pacific Journal of Mathematics 230: 271-296 (2007)
9. *Non-commutative multivariable Reidemeister torsion and the Thurston norm* (with Shelly Harvey), Algebraic and Geometric Topology 7: 755-777 (2007)
10. *Non-smoothable four-manifolds with cyclic fundamental group* (with Ian Hambleton, Paul Melvin and Peter Teichner), International Mathematics Research Notices 2007, Article ID rnm031, 20 pages
11. *Nontrivial Alexander polynomials of knots and links* (with Stefano Vidussi), Bulletin of the London Mathematical Society 39: 614–622 (2007)
12. *The parity of the Cochran-Harvey invariants of 3-manifolds* (with Taehee Kim), Transactions of the American Mathematical Society 360 (2008), 2909-2922.
13. *Symplectic $\mathbf{S}^1 \times \mathbf{N}^3$, surface subgroup separability, and vanishing Thurston norm* (with Stefano Vidussi), Journal of the American Mathematical Society 21 (2008), 597-610.
14. *Twisted Alexander polynomials and symplectic structures* (with Stefano Vidussi), American Journal of Mathematics 130 (2), 455–484 (2008)
15. *Twisted Alexander norms give lower bounds on the Thurston norm* (with Taehee Kim), Transactions of the American Mathematical Society 360 (2008), 4597-4618.
16. *Metabelian $SL(n, C)$ representations of knot groups* (with Hans Boden), Pacific Journal of Mathematics 238, 7–25 (2008)
17. *Twisted Alexander polynomials, symplectic 4-manifolds and surfaces of minimal complexity* (with Stefano Vidussi), Banach Center Publ. 85 (2009), 43-57
18. *New constructions of slice links* (with Tim Cochran and Peter Teichner), Commentarii Mathematici Helvetici 84, Issue 3 (2009), 617-638.
19. *L^2 -Betti numbers of plane algebraic curves* (with Constance Leidy and Laurentiu

- Maxim), Michigan Mathematical Journal, 58 (2009), no. 2, 291-301.
20. *Realizations of Seifert matrices by hyperbolic knots*, Journal of Knot Theory and Its Ramifications, Vol. 18, No. 11, 1471–1474 (2009)
 21. *A survey of twisted Alexander polynomials* (with Stefano Vidussi), in: The Mathematics of Knots: Theory and Application (Contributions in Mathematical and Computational Sciences), editors: Markus Banagl and Denis Vogel (2010), p. 45-94.
 22. *Metabelian $SL(n, C)$ representations of knot groups II: fixed points* (with Hans Boden), Pacific Journal of Mathematics, 249-1 (2011), 1–10.
 23. *A Criterion for HNN Extensions of Finite p -Groups to be Residually p* (with Matthias Aschenbrenner), Journal of Pure and Applied Algebra 215 (2011) 2280–2289.
 24. *Twisted Alexander polynomials detect fibered 3-manifolds* (with Stefano Vidussi), Annals of Mathematics, Volume 173 (2011), 1587–1643.
 25. *Residual properties of graph manifold groups* (with Matthias Aschenbrenner), Topology and its Applications 158 (2011), 1179–1191.
 26. *Symplectic 4-manifolds with $K = 0$ and the Lubotzky alternative* (with Stefano Vidussi), Mathematics Research Letters 18 (2011) 513-519.
 27. *The cobordism group of homology cylinders* (with Jae Choon Cha and Taehee Kim), Compositio Mathematica 147 (2011), 914-942.
 28. *The decategorification of sutured Floer homology* (with András Juhász and Jacob Rasmussen), Journal of Topology (2011) 4(2): 431-478.
 29. *Twisted Alexander polynomials and fibered 3-manifolds* (with Stefano Vidussi), Low-Dimensional and Symplectic Topology, Proceedings of Symposia in Pure Mathematics Volume 82 (2011), 111-130.
 30. *An Injectivity Theorem for Casson-Gordon Type Representations relating to the Concordance of Knots and Links* (with Mark Powell), Bulletin of the Korean Mathematical Society 49 (2012), 395–409.
 31. *Construction of symplectic structures on 4-manifolds with a free circle action* (with Stefano Vidussi), Proceedings of the Royal Society of Edinburgh 142 (2012), pp 359 - 370.
 32. *Twisted Alexander polynomials of hyperbolic knots* (with Nathan Dunfield and Nicholas Jackson), Experimental Mathematics 21 (2012), 329–352.
 33. *Cosmetic crossings and Seifert matrices* (with Cheryl Balm, Efstratia Kalfagianni and Mark Powell), Communications in Analysis and Geometry 20 (2012), 235–253.
 34. *Poincaré duality and degrees of twisted Alexander polynomials* (with Taehee Kim and Takahiro Kitayama), Indiana University Mathematics Journal. 61 (2012), 147–192.
 35. *Twisted torsion invariants and link concordance* (with Jae Choon Cha), Forum Mathematicum 25 (2013), 471–504.
 36. *3-manifold groups are virtually residually p* (with Matthias Aschenbrenner), Mem-

- oirs of the Amer. Math. Soc. 225, Number 1058 (2013)
37. *Commensurability of knots and L^2 -invariants*, 16 pages, to be published by Geometry & Topology Down Under: Proceedings of the Rubinstein conference. Contemporary Mathematics 597 (2013), 263–279.
 38. *Taut sutured manifolds and twisted homology* (with Taehee Kim), Mathematical Research Letter 20 (2013), 289–303.
 39. *Minimal Genus on 4-manifolds with a Free Circle Action* (with Stefano Vidussi), Advances in Mathematics 250 (2014), 570–587.
 40. *Cobordisms to weakly splittable links* (with Mark Powell), Proceedings of the American Mathematical Society 142 (2014), 703–712.
 41. *A vanishing theorem for twisted Alexander polynomials with applications to symplectic 4-manifolds*, (with Stefano Vidussi), Journal of the European Mathematical Society 15 (2013), no. 6, 2127–2041.
 42. *Kähler groups, quasi-projective groups, and 3-manifold groups* (with Alex Suciu), Journal of the London Mathematical Society 89 (2014), 151–168.
 43. *Links not concordant to the Hopf link* (with Mark Powell), Mathematical Proceedings of the Cambridge Philosophical Society 156 (2014), 425–459.
 44. *On the topology of Symplectic Calabi-Yau 4-manifolds* (with Stefano Vidussi), 12 pages, Journal of Topology (2013) 6 (4): 945–954.
 45. *Metabelian $SL(n, \mathbb{C})$ representations of knot groups IV: Twisted Alexander polynomials* (with Hans Boden), Mathematical Proceedings of the Cambridge Philosophical Society 156 (2014), 81–97.
 46. *A note on a topological approach to the μ -constant problem in dimension 2* (with Maciej Borodzik), Revista Matemática Complutense 27 (2014), 345–350.
 47. *A note on the growth of Betti numbers and ranks of 3-manifold groups*, Bulletin des Sciences Mathématiques 138 (2014), 63–70.
 48. *Rank gradients of infinite cyclic covers of 3-manifolds* (with Jason DeBlois and Stefano Vidussi), Michigan Journal of Mathematics 63 (2014), 65–81.
 49. *Concordance of links with identical Alexander invariants* (with Jae Choon Cha and Mark Powell), Bulletin of the London Mathematical Society 46, No. 3 (2014), 629–642.
 50. *Twisted Reidemeister torsion, the Thurston norm and fibered manifolds*, Geometriae Dedicata 172, (2014), 135–145.
 51. *The unknotting number and classical invariants II* (with Maciej Borodzik), Glasgow Mathematical Journal 56 (2014), 657–680.
 52. *The virtual fibering theorem for 3-manifolds* (with Takahiro Kitayama), L’Enseignement Mathématique 60 (2014), no. 1, 79107.
 53. *A specious unlinking strategy* (with Matthias Nagel and Mark Powell), Periodica Mathematica Hungarica 69 (2014), 207–210.

54. *Metabelian $SL(n, \mathbb{C})$ representations of knot groups, III: deformations* (with Hans Boden), Quarterly Journal of Mathematics 65 (2014), 817–840.
55. *Thurston's vision and the virtual fibering theorem for 3-manifolds*, Jahresber. Dtsch. Math.-Ver. 116 (2014), 223–241.
56. *On the algebraic unknotting number* (with Maciej Borodzik), Transactions of the London Mathematical Society 1 (2014), 57–84.
57. *The unknotting number and classical invariants I* (with Maciej Borodzik), Algebraic & Geometric Topology 15 (2015), 85–135.
58. *The L^2 -Alexander torsions of 3-manifolds* (with Jérôme Dubois and Wolfgang Lück), Comptes Rendus Mathématique 353 (2015), 69–73.
59. *Three flavors of twisted invariants of knots* (with Jérôme Dubois and Wolfgang Lück), Introduction to Modern Mathematics, Advanced Lectures in Mathematics 33 (2015), 143–170.
60. *Thompson's group F is not SCY*, Groups, Geometry and Dynamics 9 (2015), 325–329.
61. *Splittings of knot groups* (with Daniel Silver and Susan Williams), Mathematische Annalen 362, (2015), 401–424.
62. *Virtually symplectic fibered 4-manifolds* (with İnanç Baykur), Indiana Univ. Math. J. 64 No. 4 (2015), 983–999.
63. *3-manifold groups* (with Matthias Aschenbrenner and Henry Wilton), 230 pages, EMS Series of Lectures in Mathematics (2015)
64. *The Thurston norm and twisted Alexander polynomials* (with Stefano Vidussi), Journal für die reine und angewandte Mathematik 707 (2015), 87–102.
65. *The L^2 -Alexander torsion is symmetric* (with Jérôme Dubois and Wolfgang Lück), Algebraic & Geometric Topology 15-6 (2015), 3599–3612.
66. *3-manifolds that can be made acyclic* (with Matthias Nagel), International Mathematics Research Notices 2015, no. 24, 13360–13378.
67. *Decision problems for 3-manifolds and their fundamental groups* (with Matthias Aschenbrenner and Henry Wilton), Baykur, R. Inanc (ed.) et al., Interactions between low dimensional topology and mapping class groups. Geometry and Topology Monographs 19 (2015), 201–236.
68. *Sutured Floer homology, fibrations, and taut depth one foliations* (with András Juhász and Irida Altman), Trans. Am. Math. Soc. 368, No. 9 (2016), 6363–6389.
69. *The membership problem for 3-manifold groups* (with Henry Wilton), 19 pages, to be published by Algebraic & Geometric Topology.
70. *Twist spinning of knots and metabolizers of Blanchfield pairings* (with Patrick Orson), 12 pages, to be published by the Annales de la Faculté des Sciences de Toulouse.
71. *Blanchfield forms and Gordian distance* (with Maciej Borodzik and Mark Powell),

- 35 pages, to be published by the Journal of the Mathematical Society of Japan
72. *Splitting numbers of links* (with Jae Choon Cha and Mark Powell), 26 pages, to be published by the Proceedings of the Edinburgh Mathematical Society.
 73. *The Turaev and Thurston norms* (with Dan Silver and Susan Williams), 17 pages, to be published by the Pacific Journal of Mathematics.
 74. *Knot concordances and alternating knots* (with Chuck Livingston and Raphael Zentner), 10 pages, to be published by the Michigan Mathematical Journal.
 75. *Rank gradients of infinite cyclic covers of Kähler manifolds* (with Stefano Vidussi), 15 pages, to be published by the Journal of Group Theory.
 76. *Twisted Alexander invariants detect trivial links* (with Stefano Vidussi), 11 pages, submitted.
 77. *The L^2 -Alexander torsion of 3-manifolds* (with Jérôme Dubois and Wolfgang Lück), 40 pages, submitted.
 78. *Two-generator one-relator groups and marked polytopes* (with Stephan Tillmann), 33 pages, submitted.
 79. *The profinite completion of 3-manifold groups, fiberedness and the Thurston norm* (with Michel Boileau), 22 pages, submitted.
 80. *Twisted Reidemeister torsion and the Thurston norm: graph manifolds and finite representations* (with Matthias Nagel), 11 pages, submitted.
 81. *A note on the existence of essential tribranched surfaces* (with Takahiro Kitayama and Matthias Nagel), 8 pages, submitted.
 82. *Thurston norm via Fox calculus* (with Kevin Schreve and Stephan Tillmann), 20 pages, submitted.
 83. *The L^2 -torsion function and the Thurston norm of 3-manifolds* (with Wolfgang Lück), 22 pages, submitted.
 84. *Novikov homology and noncommutative Alexander polynomials*, 27 pages, submitted.
 85. *A calculation of Blanchfield pairings of 3-manifolds and knots* (with Mark Powell), 17 pages, submitted.
 86. *The Grothendieck group of polytopes and norms* (with Jae Choon Cha and Florian Funke), 6 pages, submitted.
 87. *Twisted Blanchfield pairings and decompositions of 3-manifolds* (with Constance Leidy, Matthias Nagel and Mark Powell), 13 pages, submitted.
 88. *Twisted Novikov homology of complex hypersurface complements* (with Laurentiu maxim), 10 pages, submitted.
 89. *Epimorphisms of 3-manifold groups* (with Michel Boileau), 16 pages, submitted.
 90. *Representation varieties detect essential surfaces* (with Takahiro Kitayama and Matthias Nagel), 10 pages, submitted.

Non-refereed Publications

1. *Symplectic $\mathbf{S}^1 \times \mathbf{N}^3$ and subgroup separability* (with Stefano Vidussi), Oberwolfach

- Reports, Volume 3, Issue 3 (2006), 2166–2168
2. *Fundamental groups of 3-manifolds* (with Matthias Aschenbrenner), Oberwolfach Reports, Volume 7, Issue 3 (2010), 2479–2482.
 3. *Centralizers in 3-manifold groups*, RIMS Kôkyûroku 1747 (2011), 23–34.
 4. *Approximations to the volume of hyperbolic knots* (with Nicholas Jackson), RIMS Kôkyûroku 1747 (2011), 35–46.
 5. *Cobordism on homology cylinders and combinatorial torsions* (with Jae Choon Cha and Taehee Kim), RIMS Kôkyûroku 1747 (2011) 17–22.
 6. *The Thurston norm via Fox calculus* (with Kevin Schreve and Stephan Tillmann), Oberwolfach reports, Volum 12 (2015), 200–202.
 7. *Profinite completions and 3-manifold groups* (with Michel Boileau), RIMS Kôkyûroku (2016)

Teaching

- Universität Regensburg
 - Wintersemester 2015-2016: Analysis III
 - Sommersemester 2015: Analysis II, Vorlesung über Reidemeistertorsion (mit Uli Bunke), Seminar über stable commutator length,
 - Wintersemester 2014-2015: Analysis I, Seminar über L^2 -Invarianten.
 - Wintersemester 2013-2014: Hyperbolische Geometrie, Seminar on geometric group theory.
- Universität zu Köln
 - Algebraische Topologie, Niedrigdimensionale Topologie, Sommersemester 2013.
 - Topologie, Seminar über euklidische und nichteuklidische Geometrie und Proseminar über Knotentheorie, Sommersemester 2012.
 - Analysis III und Proseminar über Ebene Geometrie, Wintersemester 2011-2012.
 - Analysis II und Proseminar über Knotentheorie, Sommersemester 2011.
 - Analysis I, Wintersemester 2010-2011.
- University of Warwick
 - Manifolds, Spring 2009 and Spring 2010.
 - Introduction to Geometry, Fall 2008 and Fall 2009.
- Université du Québec à Montréal
 - Analyse II, Fall 2007.
- Rice University
 - Linear Algebra, Fall 2004 and Fall 2005.

- Multivariable Calculus, Spring 2005 and Spring 2006.
- Geometry, Spring 2005.
- Algebraic Topology, Spring 2006.
- Brandeis University
 - Differential calculus, Fall 1999.
 - Integral Calculus, Spring 2000 – Spring 2002.

Lecture notes

- Analysis I, 123 Seiten (Wintersemester 2010/2011)
- Analysis II, 127 Seitens (Sommersemester 2011)
- Analysis III, 169 Seiten (Wintersemester 2011/2012)
- Topologie, 163 Seiten (Sommersemester 2012)
- Algebraische Topologie 169 Seiten (Sommersemester 2013)
- Hyperbolische Geometrie, 122 pages (Wintersemester 2013/2014)
- Analysis I, 200 Seiten (Wintersemester 2014/2015)
- Analysis II, 210 Seiten (Sommersemester 2015)
- Analysis III, 266 Seiten (Wintersemester 2015/2016)

Teaching Awards

- Teaching Award at Brandeis University 2001.
- Lehrpreis der Mathematisch-Naturwissenschaftlichen Fakultät der Universität zu Köln für das Wintersemester 2011/2012.
- 2. Preis für die Vorlesung Analysis II im Sommersemester 2015.
- 2. Preis für die Vorlesung Analysis III im Wintersemester 2015/2016.

Doctoral Students

- Irida Altman, July 2013, jointly supervised with Saul Schleimer and Andras Juhasz.
- Matthias Nagel (October 2012-)
- Enrico Toffoli (January 2015-)
- Kenan Ince Toffoli (February 2015-June 2016), jointly supervised with Tim Cochran and Andy Putman.

Meetings organized

- Co-organizer of the ‘Dehn Filling and Cannon-Thurston Days’, University of Warwick, May 2009
- Co-organizer of student meeting, as part of the annual DMV-meeting, September 2011

Grants

- 2014-2017: DFG SFB 1085 Higher Invariants
project B06: The l^1 -Seminorm on Homology and L^2 -Torsion.

Committee work

- Studienplanungskommission, Regensburg 2014.
- Faculty search committee, University of Cologne, 2012
- Teacher’s training committee, University of Cologne, 2011-2014

Extended research stays

- *University of California at San Diego*, May 2003
- *University of Edinburgh*, June 2004
- *University of Edinburgh*, September and October 2006
- *MSRI, Berkeley*, March and April 2011
- *Université de Paris 7*, March 2012
- *University of Sydney*, March 2013
- *IISER Pune*, March 2014
- *University of Sydney*, April 2014

Selection of invited talks

- *The Thurston norm via Fox calculus*, Oberwolfach, January 2015.
- *The virtual fibering theorem for 3-manifolds*, British Topology meeting, September 2014.
- *The virtual fibering theorem for 3-manifolds*, Oxford University, March 2014.
- *The L^2 -Alexander torsion*,
The Fourth Conference of Tsinghua Sanya International Mathematics Forum, Sanya, December 2013.
- *Consequences of the Virtual Fibering Theorem*,
Geometric Topology in New York, Columbia University, August 2013.

- *The virtual fibering theorem*,
Interactions between low-dimensional topology and mapping class groups, Max-Planck Institute for Mathematics, July 2013.
- *Twisted Alexander polynomials, fiberedness and the Thurston norm*,
Low-dimensional Topology and Geometry in Toulouse, June 2013.
- *HNN-splittings of knot groups*,
The Topology of 3-dimensional Manifolds, Université de Montréal, June 2013.
- *Twisted Alexander polynomial and the knot genus*,
Swiss Knots 2013, Bern, April 2013.
- *The virtual fibering theorem*,
University of Sydney, March 2013.
- *Twisted Alexander polynomial and the knot genus*,
IISER Pune, February 2013.
- *Minimal genus surfaces in 4-manifolds with a free circle action*,
Topology and Groups, Berlin, June 2012
- *Symplectic 4-manifolds of the form $S^1 \times N$* ,
Chern Centennial Conference, MSRI, October 2011
- *Lecture series on 3-manifold groups*,
Münster, July 2011
- *Twisted Alexander polynomials and the Thurston norm*,
Interactions of contact, symplectic and low dimensional topology, Banff, March 2011

- *3-manifold groups*,
NRW topology meeting, Bonn, November 2010
- *Slice knots*,
Kolloquium, Münster, November 2010
- *3-manifold groups*,
Topology meeting, Oberwolfach, September 2010
- *Twisted invariants of 3-manifolds*,
Twisted topological invariants and topology of low-dimensional manifolds, Akita, Japan, September 2010
- *Symplectic 4-manifolds and fibered 3-manifolds*,
Geometric Topology and Riemannian Geometry, Bangalore, India, August 2010
- *3-manifold groups are residually p* ,
Group Actions in Topology and Geometric Group Theory, Poznan, Poland, June 2010
- *Symplectic 4-manifolds and fibered 3-manifolds*,
Mathematical Sciences Research Institute, Berkeley, USA, April 2010

- *Twisted torsion of hyperbolic 3-manifolds*,
Joints AMS-KMS meeting, Seoul, Korea, December 2009
- *Symplectic 4-manifolds and fibered 3-manifolds*,
Georgia International Topology Conference, Athens Georgia, May 2009
- *Les variétés fibrées de dimension trois et les variétés symplectiques de dimension quatre*,
Nantes, May 2009
- *Les variétés fibrées de dimension trois et les variétés symplectiques de dimension quatre*,
Paris VII, May 2009
- *Symplectic 4-manifolds and fibered 3-manifolds*,
Swiss Knots 2009, Fribourg Switzerland, April 2009
- *Virtual properties of 3-manifold groups*,
ETH Zürich, Switzerland, April 2009
- *Symplectic 4-manifolds and fibered 3-manifolds*,
University of Southern California, April 2009
- *The Alexander polynomial of sutured manifolds*,
Brandeis University, April 2009
- *Symplectic 4-manifolds and fibered 3-manifolds*,
Harvard University, April 2009
- *Symplectic 4-manifolds and fibered 3-manifolds*,
The 5th East Asian School of Knots and Related Topics, January 2009
- *Symplectic 4-manifolds and fibered 3-manifolds*,
“The Mathematics of Knots: Theory and Application”, Heidelberg, December 2008

- *Symplectic 4-manifolds and fibered 3-manifolds*,
Cambridge University, November 2008
- *Symplectic 4-manifolds and fibered 3-manifolds*,
Oxford University, October 2008
- *Symplectic 4-manifolds and fibered 3-manifolds*,
Hebrew University, July 2008
- *Symplectic 4-manifolds and fibered 3-manifolds*,
Conference in honour of Ranicki’s 60th birthday, Münster, June 2008
- *Symplectic 4-manifolds and fibered 3-manifolds*,
Conference ‘50 years after Fox and Milnor’, Waltham, June 2008
- *Symplectic 4-manifolds with a free circle action*,
Yale University, February 2008
- *Symplectic 4-manifolds and Grothendieck’s problem*,
Hebrew University, Jerusalem, January 2008

- *Equivariant intersection forms of 4-manifolds*,
University of Waterloo, Waterloo, November 2007
- *New examples of topologically slice knots*,
McMaster University, Hamilton, November 2007
- *Equivariant intersection forms of 4-manifolds*,
University of Massachusetts at Amherst, October 2007
- *Symplectic 4-manifolds and fibered 3-manifolds*,
Workshop on 3-manifold geometry and topology, University of Warwick, UK, July 2007
- *Symplectic 4-manifolds of the form $S^1 \times N$* ,
Postnikov memorial conference, June 2007, Bedlewo, Poland
- *Equivariant intersection forms of 4-manifolds*,
University of California at Riverside, May 2006
- *Symplectic 4-manifolds with a free circle action*,
BIRS workshop, Banff, April 2007
- *Commensurability and L^2 -invariants*,
Columbia University, New York, April 2007
- *Symplectic 4-manifolds with free circle action*,
BIRS workshop, Banff, March 2007
- *Sur les produits $S^1 \times N^3$ symplectiques*,
Institut de Mathématiques de Jussieu (Paris), October 2006
- *Symplectic Products and subgroup separability*,
University of Glasgow, October 2006
- *Symplectic $S^1 \times N^3$ and subgroup separability*,
Oberwolfach workshop on 4-manifolds, August 2006
- *Symplectic Products, degenerate Thurston norm and subgroup separability*,
PCMI workshop on low-dimensional topology, Park City, July 2006
- *Symplectic Products and Fibered Manifolds*,
First Louisiana-Texas-Topology-Retreat, Baton Rouge, March 2006
- *New examples of topologically slice knots*,
Conference on the Algebraic K- and L-theory of infinite groups, Edinburgh, June 2005
- *Thurston norm, fibered manifolds and twisted Alexander polynomials*,
University of California at Berkeley, May 2005.
- *Thurston norm, fibered manifolds and twisted Alexander polynomials*,
Conference on Low-Dimensional Topology, University of Virginia, Charlottesville, December 2004.
- *Eta invariants as sliceness obstructions*,
Topology Seminar, University of Texas at Austin, November 2004.

- *New examples of topologically slice knots*,
Workshop on Knots and their Manifold Stories, BIRS, Canada, May 2004.
- *New examples of topologically slice knots*,
Topology Seminar, Indiana University, Bloomington, August 2004.
- *New examples of topologically slice knots*,
Topology Seminar, McMaster University, March 2004.
- *New examples of topologically slice knots*,
Topology Seminar, University of Edinburgh, February 2004.
- *Eta invariants as sliceness obstructions*,
Topology Seminar, University of Göttingen, December 2003.
- *Eta invariants as sliceness obstructions*,
Topology Seminar, University of California at San Diego, June 2003.
- *Eta invariants as sliceness obstructions*,
AMS Meeting (#985), Special session on Geometric Topology, Bloomington, IN,
April 2003.

Language Skills

Fluent in German and English.
 Good knowledge of French.
 Reading proficiency in Italian and Spanish.
 Medium reading proficiency in Czech.
 Basic knowledge of Hebrew.

Referee for the following journals

Algebraic and Geometric Topology
 Annali della Scuola Normale Superiore
 Bulletin of the Malaysian Mathematical Sciences Society
 Duke Mathematical Journal
 Experimental Mathematics
 Forum Mathematicum
 Geometry and Topology
 Indiana University Mathematics Journal
 International Journal of Mathematics
 International Mathematical Research Notices
 Journal of Knot Theory and its Ramifications
 Journal of Pure and Applied Algebra
 Journal of the European Mathematical Society

Journal of Topology

Mathematical Proceedings of the Cambridge Philosophical Society

Mathematische Zeitschrift

Pacific Journal of Mathematics

Proceedings of the American Mathematical Society

Proceedings of the Edinburgh Mathematical Society