Ralph Martin Kaufmann

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Curriculum vitae

August 2008

Current Position

Associate Professor at Purdue University, West Lafayette, IN	since Sep 07

Previous Positions

Tenure Track Assistant Professor at the University of Connecticut, Storrs, CT	Sep 04 – Sep 07
Tenure Track Assistant Professor at Oklahoma State University, Stillwater, OK	Sep 02 – Aug 04
Visiting Professor at the Max–Planck–Institute for Mathematics, Bonn, Germany (on leave from Oklahoma State University)	Jul 02 – Aug 03
Busemann Assistant Professor at the University of Southern California (USC), Los Angeles, CA	Sep 99 – Jul 02
Post–doctoral Fellow at the Max–Planck–Institute for Mathematics, Bonn, Germany	Jul 99 – Aug 99
Marie Curie Fellow of the European Union at the Institut des Hautes Études Scientifiques (IHÉS), Bures–sur–Yvette, France.	Jul 98 – Jun 99
Post–doctoral Fellow at the Max–Planck–Institute for Mathematics, Bonn, Germany	Aug 97 – Jun 98

Professional Degrees

Habilitation

Habilitation (special German post-doctoral degree) in the field Mathematics from the University of Bonn, Bonn, Germany.	Jun 04
"Habilitationsschrift": *Moduli spaces and Deformations*	

Doctoral Degree

Doctoral studies in mathematics at the University of Bonn and the Max–Planck–Institute for Mathematics, Bonn, Germany.	May 94 – Jul 97
PhD: Graduated "summa cum laude" as Dr. rer. nat. (German doctorate of natural sciences) from the University of Bonn, Bonn, Germany.	Aug 97
The geometry of the moduli space of pointed curves, the tensor product in the theory of Frobenius manifolds and the explicit Künneth formula in quantum cohomology.	
Advisor: Prof. Yu. I. Manin	

University education

Studies of physics and mathematics at the University of Bonn, Bonn, Germany	Oct 88 – Apr 94
MS: Graduated "summa cum laude" with a Diplom (German M.S.) in physics	Apr 94
Thesis: *Path space decompositions for the Virasoro algebra and its Verma modules*	
BS: (Vordiplom) "summa cum laude" in mathematics (German B.S.)	Oct 90
BS: (Vordiplom) "summa cum laude" in physics (German B.S.)	Jul 90
Studies of philosophy at the University of Bonn, Bonn, Germany	Oct 91 – Oct 96
MA: Graduated "summa cum laude" with a Magister (German M.A.) in philosophy	Oct 96
Thesis: *Socrates' enigma of false identity-judgements in Plato's 'Theaetetus' and Gottlob Frege's theory of sense and reference as a possible answer.*	

Grants

1. NSF research grant "Operads and the Topology of Possibly Singular Spaces" Aug 08 – Jul 11
   DMS-Topology 0805881 as PI
2. Large faculty research grant from the University of Connecticut Jan 06 – Dec 07
3. Dean's incentive grant of the Oklahoma State University Jun 04
4. NSF research grant "Mirror Symmetry and Frobenius Manifolds" as PI Jun 00 – Jun 03

Honors and Fellowships

PRIZE

– "Heinrich–Hörlein–Gedächtnis–Preis" from the University of Bonn Sep 98

FELLOWSHIPS

1. Post-doctoral fellowship of the "Max–Planck–Gesellschaft" Jul 99 – Aug 99
2. Post-doctoral Marie–Curie–Fellowship of the European Union Jul 98 – Jun 99
3. Post-doctoral fellowship of the "Max–Planck–Gesellschaft" Aug 97 – Jun 98
4. Fellowship of the "Studienstiftung des deutschen Volkes", Jul 95 – Jun 97
   the German national merit scholarship program, for doctoral studies.
5. Fellowship of the "Max-Planck-Gesellschaft", for doctoral studies May 94 – Jul 97
6. Fellow of the Summer Student Programme at the European Organization Jul 91 – Oct 91
   for Nuclear Research (CERN), Geneva, Switzerland.
7. Fellowship of the "Studienstiftung des deutschen Volkes" Apr 91 – Apr 94

Graduate Students

MASTER

– Abhijnan Rej, "C*-algebra approach to quantum SU(2) groups."
Graduated from Univ. of Connecticut May 05

PHD

– Rachel Schwell. "Operads, Polytopes and the $A_\infty Conjecture$".
Graduated from Univ. of Connecticut May 07

– David Pham. "The Drinfel'd double in Orbifold K-theory" current

Undergraduate Honors Students

– Brian Bishop, "Hyperbolic Geometry and special relativity",
Graduated from Univ. of Connecticut May 06

Editorship

Area editor in algebraic topology for the European Journal of Pure and Applied Math. Jan 08 –

Outreach and Synergetic Activities

LECTURES

– Bridge to research seminar, Purdue University	Apr 08
– Student lecture at the Universität Göttingen "Analytical and topological methods in geometry"	Jul 07
– Lecture for the University of Connecticut Math Club on "Topology"	Mar 04

OTHER SERVICE

– Faculty Fellow for Deans' Halls Scholarship students at the University of Southern California (USC)	Oct 01 – Aug 02
– USC "Ambassador" (these are the faculty contacts of the president)	Oct 00 – Aug 02

STUDENT OUTREACH AND SYNERGETIC ACTIVITIES

– Giving a radio interview on the Pulitzer prize winning play "Proof" and mathematics	May 02
– Supervising a student in mathematics for an undergraduate symposium	Mar 02
– Endorsement as scientific advisor of a proposal for a Sloan–Film–Prize at the USC School of Cinema and Television awarded $15,000	Mar 01

Invitations to Research Institutes and for Prolonged Stays at Universities

1.	MSRI, Berkeley, CA	Apr 09 – May 09
2.	Max–Planck–Institute for Mathematics (MPI), Bonn, Germany	July 08 – Aug 08
3.	Institut des Hautes Études Scientifiques (IHÉS), Bures-sur-Yvette, France	May 08 – July 08
4.	Mittag-Leffler Institute of the Royal Swedish Academy, Stockholm, Sweden	Jun 07
5.	Max–Planck–Institute for Mathematics (MPI), Bonn, Germany	May 07 – Aug 07
6.	Mittag-Leffler Institute of the Royal Swedish Academy, Stockholm, Sweden	Nov 06
7.	Max–Planck–Institute for Mathematics (MPI), Bonn, Germany	Aug 06
8.	MSRI, Berkeley, CA	May 06
9.	Max–Planck–Institute for Mathematics (MPI), Bonn, Germany	Jun 05 – Aug 05
10.	University of Stockholm, Stockholm, Sweden	May 05
11.	Max–Planck–Institute for Mathematics (MPI), Bonn, Germany	Jul 04 – Aug 04
12.	Institut des Hautes Études Scientifiques (IHÉS), Bures-sur-Yvette, France	May 04 – Jun 04
13.	Institut des Hautes Études Scientifiques (IHÉS), Bures-sur-Yvette, France	Mar 03 – Apr 03
14.	Max–Planck–Institute for Mathematics, Bonn, Germany	Jul 02 – Aug 03
15.	The Hong Kong University of Science and Technology, Hong Kong	Feb 03
16.	Graduiertenkolleg University of Münster, Germany	Feb 03
17.	Humboldt–University, Berlin, Germany	Dec 02
18.	IHÉS, Bures-sur-Yvette, France	May 02 – Jun 02
19.	IHÉS, Bures-sur-Yvette, France	Jul 01 – Aug 01
20.	Institute for Advanced Study (IAS), Princeton, NJ	Dec 01
21.	MPI, Bonn, Germany	Jun 01 – Jul 01
22.	MPI, Bonn, Germany	Jun 00 – Aug 00
23.	Université Joseph Fourier, Grenoble, France	May 99
24.	University of Salamanca, Salamanca, Spain	Apr 99

Invited National and International Conference Talks

1. Algebraic and Geometric Deformation Spaces — Aug 08
   Max–Planck (MPI) & Hausdorff Institutes for Mathematics, Bonn, Gemany.
   Correlators and Deformations
2. Combinatorics of moduli spaces, Hurwitz numbers, and cluster algebras, Moscow, Russia — Jun 08
   Operad structures on combinatorial moduli spaces and their actions
3. Conference on Moduli Spaces, MPI & University of Bonn, Bonn, Germany — Jan 08
   Moduli spaces in algebra and topology: operadic aspects
4. Hochschild and Cyclic (co-)homology and Applications to Geometry and Physics, — Jul 07
   Max–Planck Inistitute & Hausdorff Institute for Mathematics, Bonn, Gemany.
   Moduli space action on the Hochschild co-chains
5. Arbeitstagung, MPI & Univ. Bonn, Bonn Germany — Jun 07
   Stringy K–theory
6. Postnikov Memorial Conference, Bedlewo, Poland — Jun 07
   Homotopy Theory and Moduli Spaces.
7. VBAC 07, Principal Bundles, Gerbes and Stacks, Bad Honnef, Germany — Jun 07
   Gerbes, Stringy K-theory and the Drinfel'd double
8. International Colloquium on Integrable Systems, Prag, Czech Repulic — Jun 07
   String Digrammatics
9. Workshop on Quantum Cohomology of Stacks, IHP, Paris, France — Feb 07
   The global orbifold approach to stringy geometry.
10. AMS Special session on Homotopy Theory of Compactified Moduli Spaces, Storrs, CT — Oct 06
    Moduli Space Actions on the Hochschild co-chains of a Frobenius algebra.
11. Satellite conference to the ICM on Algebraic Geometry, Segovia, Spain — Aug 06
    Stringy phenomena for orbifolds
12. AMS Special Session on Algebraic Geometry Motivated by Physics, Eugene, OR — Nov 05
    Moduli spaces, Cells and Operadic Actions
13. AMS Special Session on Algebraic Topology of Moduli Spaces, Eugene, OR — Nov 05
    Stringy Orbifold Structures
14. Joint Meeting of AMS, DMV, and ÖMG, Mainz, Germany — Jun 05
    Stringy K-theory and stringy (quantum) cohomology for varieties with a finite group action.
15. AMS Special Session on Homotopy Theory, Newark, DE — Apr 05
    Cell models for operads and actions on the Hochschild complex
16. School and Workshop on Gromov-Witten Invariants, Trieste, Italy — Jun 04
    G-cohomological field theories and Gromov Witten Invariants for Global Orbifolds
17. Workshop on Non-Commutative Geometry and Number Theory II — Jun 04
    Max-Planck-Institut für Mathematik, Bonn, Germany
    Moduli of curves, Deligne's conjecture and Renormalization
18. AMS Special Session on Homotopical Physics, Lawrenceville, NJ — Apr 04
    Arc, String Topology and Deligne's Conjecture
19. Applications of Arithmetic Degeneration of Moduli, Irvine, CA — May 03
    Degenerations and the moduli space of pointed admissible G–covers.
20. AMS Special Session on Gromov-Witten Theory of Spin Curves and Orbifolds, — May 03
    San Francisco, CA
    On Gromov–Witten invariants for global quotients

21. Cohomology of Moduli Spaces, Amsterdam, Netherlands — Dec 02
Arc Operads, their Batalin Vilkovisky structure, relations to string topology and Connes-Kreimer's Hopf algebra

22. AMS Special Session on the Hilbert Scheme, Boston, MA — Oct 02
Symmetric products, Symmetric group Frobenius algebras and Discrete Torsion

23. ICM 2002 Satellite conference on Stringy orbifolds, Chengdu, China — Aug 02
Orbifolding, second quantization and discrete torsion

24. Workshop on Frobenius manifolds, singularities and quantum cohomology, Max–Planck–Institute for Mathematics, Bonn, Germany. — Jul 02
Orbifolding and second quantization

25. Workshop on Algebraic Geomerty and Physics 2002, Genova, Italy — Jul 02
Second quantized Frobenius algebras

26. Conference on Gromov–Witten Invariants and Integrable Systems, Institute for Advanced Study, Princeton, NJ — Dec 01
Orbifolding Frobenius manifolds

27. Graph Theory: Confluences in Molecular Biology and the Physical Sciences, Oceanographic Institution, Woods Hole, MA — Nov 01
Operads of arc families

28. Mathematical Aspects of Orbifold String Theory, University of Wisconsin, Madison, WI — May 01
Orbifold Frobenius Algebras, Cobordisms and Monodromies

29. Workshop in Algebraic Geometry and Physics 00, ICTP, Trieste, Italy — Oct 00
Orbifolding Frobenius Manifolds

30. Southern California Algebraic Geometry Seminar, UC Riverside, Riverside, CA — May 00
Frobenius Manifolds: Basic constructions and operations

31. Meeting Frobenius manifolds, quantum cohomology and related topics, Milano, Italy — Nov 99
Tensor products of Frobenius manifolds

32. Conference of the School of Differential Geometry, ICTP, Trieste, Italy — Apr 99
Products of Frobenius manifolds

33. Europroj 98 conference, Toledo, Spain, *Frobenius manifolds and their products* — Sep 98

34. ICM 1998 Satellite Conference in Algebraic and Arithmetic Geometry, Essen, Germany — Aug 98
Frobenius manifolds and their products

35. Workshop on Voevodsky's proof of the Milnor conjecture, Oberwolfach, Germany — Mar 98
Main properties of the triangulated category of motives

36. Workshop on Reflection Groups and Applications, SISSA, Trieste, Italy — Jan 98
The tensor product in the theory of Frobenius manifolds

37. Presentation for the scientific review committee, Max–Planck–Institute, Bonn, Germany — Oct 97
The moduli space of curves and quantum cohomology

38. Workshop on Mirror Symmetry, Oberwolfach, Germany — Oct 97
Enumeration of rational curves via torus actions

39. 1997 Summer Workshop on Algebraic Geometry and Physics, Salamanca, Spain — Sep 97
The tensor product in the theory of Frobenius manifolds

Seminar and Colloquium talks

1.	Notre Dame, Topology Seminar, South Bend, IN	Apr 08
2.	Purdue University, Algebraic Geometry Seminar,West Lafayette, IN	Mar 08
3.	Universität Freiburg, Seminar, Freiburg, Germany	Feb 08
4.	University of Michigan, Topology Seminar, Ann Arbor, MI	Nov 07
5.	University of Minnesota, Topology Seminar, Minneapolis, MN	Oct 07
6.	Max–Planck–Institut, Seminar on Algebra, Geometry and Physics, Bonn, Germany	Jul 07
7.	Universität Göttingen, Colloquium, Göttingen, Germany	Jul 07
8.	Universität Heidelberg, Colloquium, Heidelberg, Germany	Jun 07
9.	Institut Mittag-Leffler, Seminar, Djursholm, Sweden	Jun 07
10.	University of Illinois, Topology Seminar, Chicago, IL	Mai 07
11.	Purdue, Colloquium, West Lafayette, IN	Jan 07
12.	University of Illinois, Colloquium, Chicago, IL	Dec 06
13.	Institut Mittag-Leffler, Seminar, Djursholm, Sweden	Nov 06
14.	Brandeis University, Everytopic Seminar, Waltham, MA	Oct 06
15.	University of Erlangen-Nürnberg, Colloquium, Erlangen, Germany	Jul 06
16.	MSRI, Strings and Topology seminar, Berkeley, CA	May 06
17.	UC Berkeley, Math/Physics seminar, Berkeley, CA	May 06
18.	Wesleyan University, Geometry Seminar, Middeltown, CT	Mar 06
19.	Boston University, Geometry Seminar, Boston, MA	Feb 06
20.	University of Southern California, Colloquium, Los Angeles, CA	Jan 06
21.	University of Southern California, Algebra Seminar, Los Angeles, CA	Feb 04
22.	Purdue, Colloquium, West Lafayette, IN	Nov 05
23.	Max-Planck-Institute, Seminar on Algebra, Geometry and Physics, Bonn, Germany	Aug 05
24.	Unversity of Paderborn, Paderborn, Germany	Jul 05
25.	Humboldt University, Algebraic Geometry Seminar, Berlin, Germany	Jul 05
26.	University of Stockholm, Seminar on Algebra and Geometry, Stockholm, Sweden	May 05
27.	University of Connecticut, Geometry Seminar, Storrs, CT	Apr 05
28.	UIUC, Topology Seminar, Urbana-Champaign, Il	Mar 05
29.	MIT, Topology Seminar, Boston, MA	Feb 05
30.	University of Hamburg, Colloquium, Hamburg, Germany	Jan 05
31.	University of Bayreuth, Colloquium, Bayreuth, Germany	Jan 05
32.	University of Minnesota, Colloquium, Minneapolis, MN	Dec 04
33.	University of Massachusetts, Valley Geometry Seminar, Amherst, MA	Nov 04
34.	Purdue University, Topology Seminar, West Lafayette, IN	Nov 04
35.	Max-Planck-Institute for Mathematics, Oberseminar Topologie, Bonn, Germany	Aug 04
36.	Universität Bonn, Habilitationskolloquium, Bonn, Germany	Jun 04
37.	University of Connecticut, Colloquium, Storrs, CT	Mar 04
38.	University of Southern California, Colloquium, Los Angeles, CA	Feb 04
39.	Stanford University, Symplectic Geometry/Topology Seminar, Stanford, CA	Nov 03
40.	Oklahoma State University, Colloquium, Stillwater, OK	Oct 03
41.	Max–Planck–Institute, Seminar on Algebra, Geometry, and Physics, Bonn, Germany	Jul 03
42.	Max–Planck–Institute for Mathematics, Oberseminar, Bonn, Germany	Jun 03
43.	University of Southern California, Algebra Seminar, Los Angeles, CA	May 03

44. University of Bayreuth, Colloquium, Bayreuth, Germany Apr 03
45. Hong Kong University of Science and Technology, Colloquium, Hong Kong Feb 03
46. UCSD, Colloquium, San Diego, CA Feb 03
47. UCSD, Geometry and Topology Seminar, San Diego, CA Feb 03
48. University of Bonn, Colloquium, Bonn, Germany Jan 03
49. University of Münster, Seminar Graduiertenkolleg, Münster, Germany Jan 03
50. Humboldt University, Algebraic Geometry Seminar, Berlin, Germany Dec 02
51. University of Mainz, Geometry and Topology Seminar, Mainz, Germany Dec 02
52. University of Utrecht, Geometry Seminar, Utrecht, Netherlands Oct 02
53. University of Pennsylvania, Deformation Theory Seminar, Philadelphia, PA Oct 02
54. Yale University, Seminar on Geometry, Symmetry and Physics, New Haven, CT Oct 02
55. Université Paris 13, Paris, Séminaire de Topologie Algébrique, Paris, France Jun 02
56. UCLA, Geometry Seminar, Los Angeles, CA May 02
57. University of Massachusetts, Mathematics Colloquium, Amherst, MA Mar 02
58. University of Texas A&M, Mathematics Colloquium, College Station, TX Feb 02
59. Oklahoma State University, Mathematics Colloquium, Stillwater, OK Feb 02
60. University of Oregon, Mathematics Colloquium, Eugene, OR Jan 02
61. University of California at Irvine, Mathematics Colloquium, Irvine, CA Jan 02
62. University of Kentucky, Mathematics Colloquium, Lexington, KY Dec 01
63. Boston University, Geometry Seminar, Boston, MA Dec 01
64. CUNY, Topology seminar, New York, NY Dec 01
65. Caltech/USC Geometry and Topology Seminar, Los Angeles, CA Oct 01
66. UCLA, Mathematics Colloquium, Los Angeles, CA May 01
67. Brigham Young University, Mathematics Colloquium, Provo, UT May 01
68. Columbia University, Algebraic Geometry Seminar, New York, NY Apr 01
69. University of Southern California, Topology Seminar, Los Angeles, CA Nov 00
70. Université Joseph Fourier, Mathematics Colloquium, Grenoble, France May 99
71. University of Salamanca, Mathematics Colloquium, Salamanca, Spain Apr 99

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Publications

1. Kaufmann, Ralph M. "Moduli space actions on the Hochschild cochain complex II: correlators". Journal of Noncommutative Geometry 2, 3 (2008), 283-332.

2. Kaufmann, Ralph M. "Noncommutative aspects of open/closed strings via foliations". Reports on Math. Phys., 61, 2 (2008), 281-293.

3. Jarvis, T.; Kaufmann, R and Kimura, T. "Stringy K-theory and the Chern character". Inventiones Math. 168, 1 (2007), 23-81.

4. Kaufmann, Ralph M. "Moduli space actions on the Hochschild cochain complex I: cell models". Journal of Noncommutative Geometry 1, 3 (2007), 333-384.

5. Kaufmann, Ralph M. "On Spineless Cacti, Deligne's Conjecture and Connes–Kreimer's Hopf Algebra." Topology 46, 1 (2007), 39-88.

6. Kaufmann, Ralph M. and R. C. Penner, "Closed/Open String diagrammatics". Nucl. Phys. B 748 (2006), 335–379.

7. Kaufmann, Ralph M. "Singularities with symmetries, orbifold Frobenius algebras and mirror symmetry". Contemp. Math. 403 (2006), 67-116.

8. Jarvis, Tyler; Kaufmann, Ralph and Kimura, Takashi; "Pointed Admissible G-Covers and G-equivariant Cohomological Field Theories". Compositio Mathematica 141 (2005), 926-978.

9. Kaufmann, Ralph M. "On several varieties of cacti and their relations". Algebraic & Geometric Topology 5 (2005), 237-300.

10. Kaufmann, Ralph M. "The algebra of discrete torsion". J. of Algebra, 282 (2004), 232-259.

11. Kaufmann, Ralph M. "Second quantized Frobenius algebras". Commun. Math. Phys 248, 33-83 (2004).

12. Kaufmann, Ralph M. "Discrete torsion, symmetric products and the Hilbert scheme", in: C. Hertling and M. Marcolli (eds.) "Frobenius Manifolds, Quantum Cohomology and Singularities", Aspects of Mathematics E 36, Vieweg 2004.

13. Kaufmann, Ralph M. "Operads, Moduli of Surfaces and Quantum Algebras", in N. Tongring and R. C. Penner (eds.) "Woods Hole Mathematics. Perspectives in Mathematics and Physics", Series on Knots and Everything - Vol. 34, World Scientific 2004.

14. Kaufmann, Ralph M.; Livernet, Muriel and Penner, Robert C. "Arc Operads and Arc Algebras". Geometry and Topology 7 (2003), 511-568.

15. Kaufmann, Ralph M. "Orbifolding Frobenius Algebras". Internat. J. of Math. 14 (2003), 573-619.

16. Kaufmann, Ralph M. "Orbifold Frobenius Algebras, Cobordisms and Monodromies", 135–161. "Orbifolds in Mathematics and Physics" Contemp. Math. (310). Amer. Math. Soc. Providence, RI, 2002.

17. Kaufmann, Ralph M. "The tensor product in the theory of Frobenius manifolds". Internat. J. of Math. 10 (1999), 159-206.

18. Kaufmann, Ralph M. "The geometry of the moduli space of pointed curves, the tensor product in the theory of Frobenius manifolds and the explicit Künneth formula in quantum cohomology". Bonner Mathematische Schriften 312, 95 p., Bonn 1997.

19. Kaufmann, Ralph M. "The intersection form in $H^*(\bar{M}_{0,n})$ and the explicit Künneth formula in quantum cohomology". Internat. Math. Res. Notices 19 (1996), 929-954.

20. Kaufmann, R.; Manin, Yu.; and Zagier, D. "Higher Weil-Petersson Volumes of Moduli Spaces of Stable n-pointed Curves". Comm. Math. Phys. 181 (1996), 763-787.

21. Kontsevich, M. and Manin, Yu with appendix by Kaufmann, R. "Quantum cohomology of a product". Invent. Math. 124 (1996), 313-339.

22. Kaufmann, Ralph M. "Path Space Decompositions for the Virasoro Algebra and its Verma Modules". Internat. J. of Modern Phys. A 10 (1995), 943-961.

Papers accepted for Publication

23. Kaufmann, Ralph M. "Graphs, strings and actions". Final version, MPIM 2007-95. Manin Festschrift., to appear.

24. Ralph M. Kaufmann, "A proof of a cyclic version of Deligne's conjecture via Cacti." Preprint, math.QA/0403340, 20p. Math. Research Letters, To appear.

25. Kaufmann, Ralph M. "Dimension vs. Genus: A surface realization of the little k–cubes and an E_∞ operad. Preprint arXiv:0801.0523, 35p., Proceedings of the Postnikov Memorial conference, to appear.

26. Kaufmann, Ralph M. and Pham, David "The Drinfel'd Double and Twisting in Stringy Orbifold Theory". Preprint, arXiv:0708.4006 MPIM2007-104, IML No.40 2006/07, 35p. Internat. J. of Math., to appear.

Submitted Preprints

27. Kaufmann, Ralph M. "A Note on the Two Approaches to Stringy Functors for Orbifold". Preprint, math.AG/0703209 , MPIM 2007-96 16p.

28. Kaufmann, Ralph M. and Schwell, Rachel. "Associahedra, Cyclohedra and a Topological solution to the A_∞–Deligne conjecture". Preprint arXiv:0710.3967, 36p.

Miscellaneous publications

29. "Anmerkungen zu Oskar Pastiors Algorismus" (Remarks on Oskar Pastior's Algorism) in Oskar Pastior, "Gewichtete Gedichte: Chronologie der Materialien". Mit Beiträgen von Ralph Kaufmann und Oswald Egger. Edition: Das böhmische Dorf (2006). ISBN 3-901024-08-9.

Theses and Dissertations

1. Ralph M. Kaufmann "Moduli spaces and Deformations" *Habilitation Bonn, Germany 2003. 251p.*

2. Ralph M. Kaufmann "The geometry of the moduli space of pointed curves, the tensor product in the theory of Frobenius manifolds and the explicit Künneth formula in quantum cohomology." *Dissertation 1997.*

3. Ralph M. Kaufmann. "Socrates' enigma of false identity-judgements in Plato's 'Theaetetus' and Gottlob Frege's theory of sense and reference as a possible answer." *Master thesis 1996.*

4. Ralph M. Kaufmann. "Path space decompositions for the Virasoro algebra and its Verma modules." *Master thesis 1994.*