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Publications

1. Kaufmann, Ralph M. “Global Stringy Orbifold Cohomology, K-theory and de Rham Theory” Letters in Mathematical Physics, 94, 2 (2010) 165-195.
2. Kaufmann, Ralph M. “Open/Closed String Topology and Moduli Space Actions via Open/Closed Hochschild Actions”. SIGMA 6 (2010) 036, 33 pages.
3. Kaufmann, Ralph M. “Graphs, strings and actions”. in: Algebra, Arithmetic and Geometry Volume II: In Honor of Yu. I. Manin. Progress in Mathematics 270, 127–178. Birkhauser, Boston (2010).
4. Kaufmann, Ralph M. and Schwell, Rachel. “Associahedra, Cyclohedra and a Topological solution to the A_∞ -Deligne conjecture”. Advances in Math.223, 6 (2010), 2166-2199.
5. Kaufmann, Ralph M. and Pham, David. “The Drinfel’d Double and Twisting in Stringy Orbifold Theory”. Internat. J. of Math., 20, 5 (2009) 623-657.
6. Kaufmann, Ralph M. “Dimension vs. Genus: A surface realization of the little k -cubes and an E_∞ operad.” in: Algebraic Topology - Old and New. M. M. Postnikov Memorial Conference, 241-274, Banach Center Publ., 85, Polish Acad. Sci., Warsaw, 2009.
7. Ralph M. Kaufmann, “A proof of a cyclic version of Deligne’s conjecture via Cacti.” Math. Research Letters 15, 5 (2008), pp. 901-921.
8. Kaufmann, Ralph M. “Noncommutative aspects of open/closed strings via foliations”. Reports on Math. Phys., 61, 2 (2008), 281-293.
9. Kaufmann, Ralph M. “Moduli space actions on the Hochschild cochain complex II: correlators”. Journal of Noncommutative Geometry 2, 3 (2008), 283-332.
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11. Jarvis, T.; Kaufmann, R and Kimura, T. “Stringy K-theory and the Chern character”. Inventiones Math. 168, 1 (2007), 23-81.
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13. Kaufmann, Ralph M. and Penner, R. C. “Closed/Open String diagrammatics”. Nucl. Phys. B 748 (2006), 335–379.
14. Kaufmann, Ralph M. “Singularities with symmetries, orbifold Frobenius algebras and mirror symmetry”. Contemp. Math. 403 (2006), 67-116.
15. Jarvis, Tyler; Kaufmann, Ralph and Kimura, Takashi; “Pointed Admissible G -Covers and G -equivariant Cohomological Field Theories”. Compositio Mathematica 141 (2005), 926-978.

16. Kaufmann, Ralph M. “On several varieties of cacti and their relations”. *Algebraic & Geometric Topology* 5 (2005), 237-300.
17. Kaufmann, Ralph M. “The algebra of discrete torsion”. *J. of Algebra*, 282 (2004), 232-259.
18. Kaufmann, Ralph M. “Second quantized Frobenius algebras”. *Commun. Math. Phys* 248, 33-83 (2004).
19. 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.
20. Kaufmann, Ralph M. “Operads, Moduli of Surfaces and Quantum Algebras”, in N. Toriging and R. C. Penner (eds.) “Woods Hole Mathematics. Perspectives in Mathematics and Physics”, *Series on Knots and Everything - Vol. 34*, World Scientific 2004.
21. Kaufmann, Ralph M.; Livernet, Muriel and Penner, Robert C. “Arc Operads and Arc Algebras”. *Geometry and Topology* 7 (2003), 511-568.
22. Kaufmann, Ralph M. “Orbifolding Frobenius Algebras”. *Internat. J. of Math.* 14 (2003), 573-619.
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24. Kaufmann, Ralph M. “The tensor product in the theory of Frobenius manifolds”. *Internat. J. of Math.* 10 (1999), 159-206.
25. 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.
26. 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.
27. 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.
28. Kontsevich, M. and Manin, Yu with appendix by Kaufmann, R. “Quantum cohomology of a product”. *Invent. Math.* 124 (1996), 313-339.
29. Kaufmann, Ralph M. “Path Space Decompositions for the Virasoro Algebra and its Verma Modules”. *Internat. J. of Modern Phys. A* 10 (1995), 943-961.

Reports in Proceedings

30. Kaufmann, Ralph M. “Moduli Spaces, Foliations and Algebraic Structures”. *Oberwolfach Reports Issue 4, 2010*, Report 53/2010 *Teichmüller Theory* Organized by: Shigeyuki Morita, Athanase Papadopoulos and Robert C. Penner pp. 3124–3128

Papers accepted for Publication

31. Kaufmann, Ralph M., Khlebnikov, Sergei and Wehefritz-Kaufmann, Birgit. “The geometry of the Double Gyroid wire network: Quantum and Classical”. arXiv:1010.1709, Journal of Noncommutative Geometry to appear.

Submitted Preprints

32. Borisov, Lev and Kaufmann, Ralph M. “On CY-LG correspondence for (0,2) toric models”. arXiv:1102.5444

Miscellaneous publications

1. “Anmerkungen zu Oskar Pastiors Algorismus” (Remarks on Oskar Pastior’s Algorismus) 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.*