

LIST OF PUBLICATIONS

All papers submitted to the arxiv can be obtained at

http://arxiv.org/a/schweigert_c_1

Publications in refereed journals:

1. “*On the classification of $N = 2$ superconformal coset models*”
Commun. Math. Phys. 149 (1992) 425 - 431
2. “*Non-Hermitian symmetric $N = 2$ coset models, Poincaré polynomials and string compactification*”
(with J. Fuchs)
Nucl. Phys. B 411 (1994) 181 - 222, arXiv:hep-th/9304133v1
3. “*Level-rank duality of WZW theories and isomorphisms of $N = 2$ coset models,*”
(with J. Fuchs)
Annals of Physics 234 (1994) 102 - 140, arXiv:hep-th/9307107v2
4. “*Poincaré polynomials and level-rank dualities in the $N = 2$ coset construction,*”
Theor. Math. Phys. 98 (1994) 326 - 334, arXiv:hep-th/9311168v1
5. “*On the configuration space of gauge theories,*”
(with J. Fuchs and M.G. Schmidt)
Nucl. Phys. B 426 (1994) 107 - 128, hep-th/9404059
6. “*Modular invariants and fusion rule automorphisms from Galois theory,*”
(with J. Fuchs, B. Gato-Rivera and A.N. Schellekens)
Phys. Lett. B 334 (1994) 113 - 120, arXiv:hep-th/9405153v1
7. “*Extended geometry of black holes,*”
(with K. Peeters and J.W. van Holten)
Class. Quantum Grav. 12 (1995) 173 - 179, arXiv:gr-qc/9407006v1
8. “*Galois modular invariants of WZW models,*”
(with J. Fuchs and A.N. Schellekens)
Nucl. Phys. B 437 (1995) 667 - 694, arXiv:hep-th/9410010v1
9. “*Quasi-Galois symmetries of the modular S -matrix,*”
(with J. Fuchs and A.N. Schellekens)
Commun. Math. Phys. 176 (1996) 447 - 465, arXiv:hep-th/9412009v1
10. “*On the extended Poincaré polynomial,*”
(with M. Kreuzer)
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11. “*From Dynkin diagram symmetries to fixed point structures,*”
(with J. Fuchs and A.N. Schellekens)
Commun. Math. Phys. 180 (1996) 39 - 97, arXiv:hep-th/9506135v3
12. “*The resolution of field identification fixed points in diagonal coset theories,*”
(with J. Fuchs and A.N. Schellekens)
Nucl. Phys. B 461 (1996) 371 - 404, arXiv:hep-th/9509105v1
13. “*A matrix S for all simple current extensions,*”
(with J. Fuchs and A.N. Schellekens)
Nucl. Phys. B 473 (1996) 323 - 366, arXiv:hep-th/9601078v2
14. “*Some automorphisms of Generalized Kac-Moody algebras,*”
(with J. Fuchs and U. Ray)
Journal of Algebra 191 (1997) 518 - 540, arXiv:q-alg/9605046v1
15. “*WZW fusion rings in the limit of infinite level,*”
(with J. Fuchs)
Commun. Math. Phys. 185 (1997) 641 - 670, arXiv:hep-th/9609124v1
16. “*On moduli spaces of flat connections with non-simply connected structure group,*”
Nucl. Phys. B 492 (1997) 743 - 755, arXiv:hep-th/9611092v1
17. “*Systematic approach to cyclic orbifolds,*”
(with L. Borisov and M.B. Halpern)
Int. J. Mod. Phys. A 13 (1998) 125 - 168, arXiv:hep-th/9811211v1
18. “*A classifying algebra for boundary conditions,*”
(with J. Fuchs)
Phys. Lett. B 414 (1997) 251 - 259, arXiv:hep-th/9708141v1
19. “*A note on the geometry of CHL heterotic strings,*”
(with W. Lerche, R. Minasian, and S. Theisen)
Phys. Lett. B 424 (1998) 53 - 59, arXiv:hep-th/9711104v1
20. “*Branes: from free fields to general backgrounds,*”
(with J. Fuchs)
Nucl. Phys. B 530 (1998) 99 - 136, arXiv:hep-th/9712257v2
21. “*The action of outer automorphisms on bundles of chiral blocks,*”
(with J. Fuchs)
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22. “*Completeness of boundary conditions for the critical three-state Potts model,*”
(with J. Fuchs)
Phys. Lett. B. 441 (1998) 141 - 146, arXiv:hep-th/9806121v1
23. “*Orbifold analysis of broken bulk symmetries,*”
(with J. Fuchs)
Phys. Lett. B. 447 (1999) 266 - 276, arXiv:hep-th/9811211v1
24. “*Symmetry breaking boundaries: I. General theory,*”
(with J. Fuchs)
Nucl. Phys. B, 558 (1999) 419 - 483, arXiv:hep-th/9902132v2

25. “Symmetry breaking boundary conditions and WZW orbifolds,”
(with L. Birke and J. Fuchs)
Adv. Th. Math. Phys. 3 (1999) 671 - 726, arXiv:hep-th/9905038v1
26. “Symmetry breaking boundaries: II. More structures, examples,”
(with J. Fuchs)
Nucl. Phys. B 568 (2000) 543 - 593, arXiv:hep-th/9908025v1
27. “New maverick coset theories,”
(with B. Pedrini and J. Walcher)
Phys. Lett. B 466 (1999) 206 - 210, arXiv:hep-th/9908185v1
28. “The geometry of WZW branes,”
(with G. Felder, J. Fröhlich and J. Fuchs)
J. Geom. Phys. 34 (2000) 162 - 190, arXiv:hep-th/9909030v3
29. “Conformal boundary conditions and three-dimensional topological field theory,”
(with G. Felder, J. Fröhlich and J. Fuchs)
Phys. Rev. Lett. 84 (2000) 1659 - 1662, arXiv:hep-th/9909140v2
30. “Correlation functions and boundary conditions in RCFT and three-dimensional topology,”
(with G. Felder, J. Fröhlich and J. Fuchs)
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31. “Universality in quantum Hall systems: coset construction of incompressible states,”
(with J. Fröhlich, B. Pedrini and J. Walcher)
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32. “Flux Stabilization of D-branes,”
(with C. Bachas and M. Douglas)
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33. “Projections in string theory and boundary states for Gepner models,”
(with J. Fuchs and J. Walcher)
Nucl. Phys. B 588 (2000) 110 - 148, arXiv:hep-th/0003298v1
34. “Solitonic sectors, alpha induction and symmetry breaking boundaries,”
(with J. Fuchs)
Phys. Lett. B 490 (2000) 163 - 172, arXiv:hep-th/0006181v2
35. “Boundaries, crosscaps and simple currents,”
(with J. Fuchs, L.R. Huiszoon, A.N. Schellekens and J. Walcher)
Phys. Lett. B 495 (2000) 427 - 434, arXiv:hep-th/0007174v2
36. “Boundary Fixed Points, Enhanced Gauge Symmetry and Singular Bundles on K3,”
(with J. Fuchs, P. Kaste, W. Lerche, A. Lütken and J. Walcher)
Nucl. Phys. B 598 (2001) 57 - 72, arXiv:hep-th/0007145v1
37. “Flux stabilization in compact groups,”
(with P. Bordalo and S. Ribault)
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38. “*D-Branes on ALE spaces and the ADE classification of conformal field theories,*”
(with W. Lerche and A. Lütken)
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39. “*Conformal Correlation Functions, Frobenius Algebras and Triangulations,*”
(with J. Fuchs and I. Runkel)
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40. “*A reason for fusion rules to be even,*”
(with J. Fuchs and I. Runkel)
J. of Physics A 35 (2002) L255-260. arXiv:math/0110257v1 [math.QA]
41. “*TFT construction of RCFT correlators I: Partition functions,*”
(with J. Fuchs and I. Runkel)
Nucl. Phys. B 646 (2002) 353-544. arXiv:hep-th/0204148v2
42. “*An algorithm for twisted fusion rules,*”
(with T. Quella and I. Runkel)
Adv. Th. Math. Phys. 6 (2002) No. 2, 197- 206. arXiv:math/0203133v2 [math.QA]
43. *7 contributions*
in the Concise encyclopedia of supersymmetry and noncommutative structures in
mathematics and physics. St. Duplij, W. Siegel and J. Bagger editors. Kluwer, 2004.
Boundary state (p. 67), Coxeter number (p. 118), Dynkin index (p. 133) Groupoid (p. 179),
Sugawara construction (p. 384), p. 492 Twisted sector (p. 492), Vertex operator algebra (p. 499).
Contribution 1,2,3 and 7 with Jürgen Fuchs.
44. “*The world sheet revisited,*”
(with J. Fuchs)
Fields Institute Comm. 39 (2003) 241-249. arXiv:hep-th/0105266v1
45. “*Category theory for conformal boundary conditions,*”
(with J. Fuchs)
Fields Institute Comm. 39 (2003) 25-70. arXiv:math/0106050v4 [math.CT]
46. “*Topologization of chiral representations,*”
(with F. Conrady)
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47. “*TFT construction of RCFT correlators II: Unoriented world sheets,*”
(with J. Fuchs and I. Runkel)
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48. “*Kramers-Wannier duality from conformal defects,*”
(with J. Fröhlich, J. Fuchs and I. Runkel)
Phys. Rev. Lett. 93 (2004) 070601, arXiv:cond-mat/0404051v2 [cond-mat.stat-mech]
49. “*TFT construction of RCFT correlators III: Simple currents,*”
(with J. Fuchs and I. Runkel)
Nucl. Phys. B. 694 (2004) 277-353, arXiv:hep-th/0403157v2

50. “*Correspondences of ribbon categories,*”
(with J. Fröhlich, J. Fuchs and I. Runkel)
Adv. Math. 199 (2006) 192-329, arXiv:math/0309465v3 [math.CT]
51. “*TFT construction of RCFT correlators IV: Structure constants and correlation functions,*”
(with J. Fuchs and I. Runkel)
Nucl. Phys. B 715 (2005) 539-638, arXiv:hep-th/0412290v2
52. “*TFT construction of RCFT correlators V: Proof of modular invariance and factorisation,*”
(with J. Fjelstad, J. Fuchs and I. Runkel)
Theory and Applications of Categories 16 (2006) 342-433, arXiv:hep-th/0503194v2
53. “*Duality and defects in rational conformal field theory,*”
(with J. Fröhlich, J. Fuchs and I. Runkel)
Nucl. Phys. B 763 (2007) 354-430, arXiv:hep-th/0607247v2
54. “*Unoriented WZW Models and Holonomy of Bundle Gerbes,*”
(with U. Schreiber and K. Waldorf)
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55. “*Topological defects for the free boson CFT,*”
(with J. Fuchs, M. Gaberdiel and I. Runkel)
J. Phys. A: Math. Theor. 40 (2007) 11403-11440, arXiv:0705.3129v1 [hep-th]
56. “*Ribbon categories and (unoriented) CFT: Frobenius algebras, automorphisms, reversions,*”
(with J. Fuchs and I. Runkel)
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57. “*Topological and conformal field theory as Frobenius algebras,*”
(with J. Fjelstad, J. Fuchs and I. Runkel)
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58. “*Bi-branes: Target Space Geometry for World Sheet topological Defects,*”
(with J. Fuchs and K. Waldorf)
J. Geom. Phys. 58 (2008) 576-598, arXiv:hep-th/0703145v1
59. “*Uniqueness of open/closed rational CFT with given algebra of open states,*”
(with J. Fjelstad, J. Fuchs and I. Runkel)
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60. “*The fusion algebra of bimodule categories,*”
(with J. Fuchs and I. Runkel)
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61. “*Kramers-Wannier dualities for WZW theories and minimal models,*”
(with E. Tsouchnika)
Commun. Contemp. Math 10 (2008) 773-789, arXiv:0710.0783v2 [hep-th]
62. “*Some remarks on defects and T-duality,*”
(with G. Sarkissian)
Nucl. Phys. B 819 (2009) 478-490, arXiv:0810.3159v2 [hep-th]

63. “*The three-dimensional origin of the classifying algebra,*”
(with J. Fuchs and C. Stigner)
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64. “*Twenty five years of two-dimensional rational conformal field theory,*”
(with J. Fuchs and I. Runkel)
J. Math. Phys. 51 (2010) 015210, arXiv:0910.3145v2 [hep-th]
65. “*On the Rosenberg-Zelinsky sequence in abelian monoidal categories,*”
(with T. Barthelemy, J. Fuchs and I. Runkel)
J. reine angew. Math. (Crelle’s Journal) 642 (2010) 1-36
66. “*Module categories for permutation modular invariants,*”
(with T. Barthelemy, J. Fuchs and I. Runkel)
Int. Math. Research Notices 16 (2010) 3067-3100
67. “*Gerbes and Lie Groups,*”
(with K. Waldorf)
ZMP-HH/07-10, Hamburger Beiträge zur Mathematik Nr. 280, in “Trends and Developments in Lie Theory”, Progress in Mathematics 288 (2010), Birkhäuser, K.-H. Neeb and A. Pianzola eds., p. 339-364
68. “*Bundle gerbes and surface holonomy,*”
(with J. Fuchs, Th. Nikolaus and K. Waldorf)
in: European Congress of Mathematics, Amsterdam 2008, A. Ran, H. te Riele and J. Wiegerinck eds, p. 167 -196
69. “*Equivariance in higher geometry,*”
(with T. Nikolaus)
Advances in Mathematics 226 (2011) 3367-3408
70. “*The classifying algebra for defects,*”
(with J. Fuchs and Carl Stigner)
Nucl. Phys. B 843 (2011) 673-723
71. “*Modular categories from finite crossed modules*”
(with J. Maier)
Journal of Pure and Applied Algebra, 215 (2011) 2196-2208

Preprints:

1. “*Hopf algebras and Frobenius algebras in finite tensor categories,*”
(with J. Fuchs)
ZMP-HH/10-8, Hamburger Beiträge zur Mathematik Nr. 366, arXiv:1003.2578 [math.QA]
2. “*A Geometric Construction for Permutation Equivariant Categories from Modular Functors,*”
(with T. Barthelemy)
ZMP-HH/10-9, Hamburger Beiträge zur Mathematik Nr. 367, arXiv:1004.1825v1 [math.QA]
3. “*Hopf algebras and finite tensor categories in conformal field theory,*”
(with J. Fuchs)
ZMP-HH/10-11, Hamburger Beiträge zur Mathematik Nr. 372, arXiv:1004.3405v1 [hep-th]
4. “*Equivariant modular categories via Dijkgraaf-Witten theory,*”

- (with J. Maier and Th. Nikolaus)
ZMP-HH/11-3, Hamburger Beiträge zur Mathematik Nr. 402, to appear in Adv. Theor. Math. Phys. arXiv:1103.2963v1 [math.QA]
5. “*Modular invariant Frobenius algebras from ribbon Hopf algebra automorphisms,*”
(with J. Fuchs and C. Stigner)
ZMP-HH/11-9, Hamburger Beiträge zur Mathematik Nr. 408, erscheint in J. Algebra
arXiv:1106.0210v1 [math.QA]
 6. “*Strictification of weakly equivariant Hopf algebras,*”
(with J. Maier and Th. Nikolaus)
ZMP-HH/11-14, Hamburger Beiträge zur Mathematik Nr. 415, to appear in Bull. Belgian Math. Soc., arXiv:1109.0236v1 [math.RA]
 7. “*The Cardy-Cartan modular invariant,*”
(with J. Fuchs and C. Stigner)
Contribution to the Maximilian Kreuzer Memorial Volume
ZMP-HH/12-2, Hamburger Beiträge zur Mathematik Nr. 431, arXiv:1201.4267v1 [hep-th]
 8. “*Bicategories for boundary conditions and for surface defects in 3-d TFT,*”
(with J. Fuchs and A. Valentino)
ZMP-HH/12-5, Hamburger Beiträge zur Mathematik Nr. 433, arXiv:1203.4568v2 [hep-th]

Books:

1. “*Symmetries, Lie Algebras and Representations*”,
(with J. Fuchs)
Cambridge Monographs on Mathematical Physics, Cambridge University Press, 1997. xii+438 pp.
Paperback edition: October 2003, ISBN: 0521560012.
2. “*Softwarepraktikum - Analysis und Lineare Algebra*”,
(with D. Bahns)
Vieweg, 2007. ISBN 978-3-8348-0370-2

Proceedings:

1. *“Twining characters, orbit Lie algebras, and fixed point resolution,”*
(with J. Fuchs and A.N. Schellekens)
in: *New Trends in Quantum Field Theory*; A.Ch. Ganchev, R. Kerner and I. Todorov eds., Heron Press Sofia, 1996. arXiv:q-alg/9511026v1
2. *“Fixed point resolution in conformal field theory,”*
(with J. Fuchs and A.N. Schellekens)
in: *Group21, Physical Applications and Mathematical Aspects of Geometry, Groups, and Algebras*; H.-D. Doebner, W. Scherer, and C. Schulte eds., World Scientific, 1997.
arXiv:hep-th/9612093v1
3. *“Twining characters and orbit Lie algebras,”*
(with J. Fuchs, U. Ray and A.N. Schellekens)
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4. *“Classifying algebras for boundary conditions and traces on spaces of conformal blocks,”*
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5. *“D-brane conformal field theory,”*
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6. *“Bundles of chiral blocks and boundary conditions in CFT,”*
(with J. Fuchs)
in: *Lie Theory and its applications in physics III*; H.-D. Doebner et al eds., World Scientific, 2000, p. 221-236. arXiv:hep-th/0001005v1
7. *“D-brane conformal field theory and bundles of conformal blocks,”*
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8. *“Solitonic sectors, conformal boundary conditions and three-dimensional topological field theory,”*
(with J. Fuchs)
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arXiv:hep-th/0009111v2
9. *“Lie algebra automorphisms in conformal field theory,”*
(with J. Fuchs)
in: *Recent Developments in Infinite-Dimensional Lie Algebras and Conformal Field Theory*, S. Berman et al eds., *Contemporary Mathematics Volume 297*, AMS, 2002, p. 117-142.
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10. *“Conformal field theory, boundary conditions and applications to string theory,”*
(with J. Fuchs and J. Walcher)
in: *Non-perturbative QFT methods and their applications*; Z. Horvath and L. Palla eds.,

World Scientific, 2001. p.37-93. arXiv:hep-th/0011109v1

11. “*D-branes in group manifolds and flux stabilization,*”
in: Proceedings of the Ninth Marcel Grossmann Meeting on General Relativity;
V.G. Gurzadyan, R.T. Jantzen and R. Ruffini eds., World Scientific, 2002, p. 1217 - 1221.
arXiv:hep-th/0012045v1
12. “*Conformal boundary conditions and 3D topological field theory.*”
(with J. Fuchs and I. Runkel)
in: Statistical Field Theories; A. Cappelli and G. Mussardo eds., Kluwer Academic Publishers,
2002, p. 185-194. arXiv:hep-th/0110158v1
13. “*Strings, symmetries and representations.*”
(with J. Fuchs and I. Runkel)
in: Group 24: Physical and mathematical aspects of symmetries. Institute of Physics Conference
Series Nr. 173, IOP Publishing 2003, p. 153-160.
14. “*Boundaries, defects and Frobenius algebras.*”
(with J. Fuchs and I. Runkel)
Ann. Henri Poincaré 4, Suppl. 1 (2003) S175-182 *and* Fortschritte der Physik, 51 (2003) p. 850-855,
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15. “*Open Strings and 3d Topological Field Theory.*”
(with J. Fuchs and I. Runkel)
Proceedings des ASI Summer Institute, Cargèse, Kluwer Academic, 2003, p. 461-464
16. “*Algebras in tensor categories and coset conformal field theories,*”
(with J. Fröhlich, J. Fuchs and I. Runkel)
Fortschritte der Physik, 52 (2004) p. 672-677, arXiv:hep-th/0309269v1
17. “*Lie algebras, Fuchsian differential equations and CFT correlation functions,*”
(with J. Fuchs and I. Runkel)
in: Ramanujan International Symposium on Kac-Moody Lie Algebras and Applications;
N. Sthanumoorthy and K. Misra eds., Contemporary Mathematics Volume 343,
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18. “*Picard groups in rational conformal field theory,*”
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19. “*Twining characters and Picard groups in rational conformal field theory,*”
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20. “*Mini-workshop: Gerbes, Twisted K-theory and Conformal Field Theory,*” Abstracts from the
mini-workshop held August 14–20, 2005. Organized by Branislav Juro, Jouko Mickelsson and
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21. “*Categorification and correlation functions in conformal field theory,*”
(with J. Fuchs and I. Runkel)
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22. “*Arbeitsgemeinschaft: Conformal Field Theory*,” Abstracts from the session held April 1–7, 2007. Organized by Y. Kawahigashi, V. Ostrik and C. Schweigert. Oberwolfach Rep. 4 (2007), no. 2, 945–994.
23. “*Defect lines, dualities and generalised orbifolds*,” (with J. Fröhlich, J. Fuchs and I. Runkel) Proceedings of the International Congress for Mathematical Physics, Prague, 2009. arXiv:0909.5013v1 [math-ph]
24. “*Bicategories in field theories - an invitation*,” (with Th. Nikolaus) Contribution to the Memorial Volume for Max Kreuzer. Hamburger Beiträge zur Mathematik 425, ZMP-HH/11-24

Theses:

1. “*Théories de champs conformes - aspects mathématiques et aspects physiques*,” Habilitation à diriger des recherches. Université Paris 6, Juni 2000.
2. “*Galois and simple current symmetries in conformal field theory*,” PhD Thesis, University of Amsterdam. June 1995.
3. “*Zur Kazama-Suzuki Konstruktion superkonformer Quantenfeldtheorien*,” Diploma Thesis, University of Heidelberg. September 1992.