

## 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)  
Phys. Lett. B 352 (1995) 276 - 285, arXiv:hep-th/9503174v1
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)  
Commun. Math. Phys. 206 (1999) 691 - 736. arXiv:hep-th/9805026v3
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)  
Compositio Math. 131 (2002) 189 - 237, arXiv:hep-th/9912239v2
31. “Universality in quantum Hall systems: coset construction of incompressible states,”  
(with J. Fröhlich, B. Pedrini and J. Walcher)  
J. Stat. Phys 103 (2001) 527 - 567. Dedicated to the memory of Quin Luttinger.  
arXiv:cond-mat/0002330v2 [cond-mat.mes-hall]
32. “Flux Stabilization of D-branes,”  
(with C. Bachas and M. Douglas)  
JHEP 5 (2000) Paper 048, 18 pp. arXiv:hep-th/0003037v2
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)  
JHEP 10 (2001) Paper 036, 16 pp. arXiv:hep-th/0108201v2

38. “*D-Branes on ALE spaces and the ADE classification of conformal field theories,*”  
(with W. Lerche and A. Lütken)  
Nucl. Phys. B 622 (2002) 269 - 278, arXiv:hep-th/0006247v3
39. “*Conformal Correlation Functions, Frobenius Algebras and Triangulations,*”  
(with J. Fuchs and I. Runkel)  
Nucl. Phys. B 624 (2002) 452 - 468, arXiv:hep-th/0110133v2
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. “*The world sheet revisited,*”  
(with J. Fuchs)  
Fields Institute Comm. 39 (2003) 241-249. arXiv:hep-th/0105266v1
44. “*Category theory for conformal boundary conditions,*”  
(with J. Fuchs)  
Fields Institute Comm. 39 (2003) 25-70. arXiv:math/0106050v4 [math.CT]
45. “*Topologization of chiral representations,*”  
(with F. Conrady)  
Commun. Math. Phys. 245 (2004) 429-448. arXiv:hep-th/0210215v2
46. “*TFT construction of RCFT correlators II: Unoriented world sheets,*”  
(with J. Fuchs and I. Runkel)  
Nucl. Phys. B. 678 (2004) 511-637. arXiv:hep-th/0306164v2
47. “*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]
48. “*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
49. “*Correspondences of ribbon categories,*”  
(with J. Fröhlich, J. Fuchs and I. Runkel)  
Adv. Math. 199 (2006) 192-329, arXiv:math/0309465v3 [math.CT]
50. “*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

51. “*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
52. “*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
53. “*Unoriented WZW Models and Holonomy of Bundle Gerbes,*”  
(with U. Schreiber and K. Waldorf)  
Commun. Math. Phys. 274 (2007) 31-64, arXiv:hep-th/0512283v2
54. “*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]
55. “*Ribbon categories and (unoriented) CFT: Frobenius algebras, automorphisms, reversions,*”  
(with J. Fuchs and I. Runkel)  
Contemporary Mathematics 431 (2007) 203-224, arXiv:math/0511590v1 [math.CT]
56. “*Topological and conformal field theory as Frobenius algebras,*”  
(with J. Fjelstad, J. Fuchs and I. Runkel)  
Contemporary Mathematics 431 (2007) 225-247, arXiv:math/0512076v2 [math.CT]
57. “*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
58. “*Uniqueness of open/closed rational CFT with given algebra of open states,*”  
(with J. Fjelstad, J. Fuchs and I. Runkel)  
Adv. Theor. Math. Phys. 12 (2008) 1281 - 1373, arXiv:hep-th/0612306v2
59. “*The fusion algebra of bimodule categories,*”  
(with J. Fuchs and I. Runkel)  
Applied Categ. Structures 16 (2008) 123 - 140, arXiv:math/0701223v1 [math.CT]
60. “*Kramers-Wannier dualities for WZW theories and minimal models,*”  
(with E. Tsouchnika)  
Commun. Contemp. Math 10 (2008) 773-789, arXiv:0710.0783v2 [hep-th]
61. “*Some remarks on defects and T-duality,*”  
(with G. Sarkissian)  
Nucl. Phys. B 819 (2009) 478-490, arXiv:0810.3159v2 [hep-th]
62. “*The three-dimensional origin of the classifying algebra,*”  
(with J. Fuchs and C. Stigner)  
Nucl. Phys. B 824 (2010) 333-364, arXiv:0907.0685v1 [hep-th]
63. “*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]

64. “*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, arXiv:0801.0157
65. “*Module categories for permutation modular invariants,*”  
(with T. Barthelemy, J. Fuchs and I. Runkel)  
Int. Math. Research Notices 16 (2010) 3067-3100, arXiv:0812.0986v2 [math.CT]
66. “*Hopf algebras and finite tensor categories in conformal field theory,*”  
(with J. Fuchs)  
Revista de la Unión Matemática Argentina 51 (2010) 43-90, arXiv:1004.3405 [hep-th]
67. “*Equivariance in higher geometry,*”  
(with T. Nikolaus)  
Adv. Math. 226 (2011) 3367-3408, arXiv:1004.4558v1 [math.AT]
68. “*The classifying algebra for defects,*”  
(with J. Fuchs and Carl Stigner)  
Nucl. Phys. B 843 (2011) 673-723, arXiv:1007.0401v1 [hep-th]
69. “*Modular categories from finite crossed modules*”  
(with J. Maier)  
Journal of Pure and Applied Algebra, 215 (2011) 2196-2208, arXiv:1003.2070 [math.QA]
70. “*A Geometric Construction for Permutation Equivariant Categories from Modular Functors,*”  
(with T. Barthelemy)  
Transform. Groups 16 (2011) 287-337, arXiv:1004.1825v1 [math.QA]
71. “*Equivariant modular categories via Dijkgraaf-Witten theory,*”  
(with J. Maier and Th. Nikolaus)  
Adv. Theor. Math. Phys. 16 (2012) 289-358, arXiv:1103.2963v1 [math.QA]
72. “*Modular invariant Frobenius algebras from ribbon Hopf algebra automorphisms,*”  
(with J. Fuchs and C. Stigner)  
J. Algebra 363 (2012) 29-72, arXiv:1106.0210v1 [math.QA]
73. “*Strictification of weakly equivariant Hopf algebras,*”  
(with J. Maier and Th. Nikolaus)  
Bull. Belgian Math. Soc. 20 (2013), 269-286, arXiv:1109.0236v1 [math.RA]
74. “*Bicategories for boundary conditions and for surface defects in 3-d TFT,*”  
(with J. Fuchs and A. Valentino)  
Commun. Math. Phys. 321 (2013) 543-575, arXiv:1203.4568v2 [hep-th]
75. “*Higher genus mapping class group invariants from factorizable Hopf algebras,*”  
(with J. Fuchs and C. Stigner)  
Adv. Math. 250 (2014) 285-319, arXiv:1207.6863v1 [math.QA]
76. “*From non-semisimple Hopf algebras to correlation functions for logarithmic CFT,*”  
(with J. Fuchs and C. Stigner)  
J. Phys. A: Math. Theor. 46 (2013) 494008.

77. “A geometric approach to boundaries and surface defects in Dijkgraaf-Witten theories,”  
(with J. Fuchs and A. Valentino)  
Commun. Math. Phys. 332 (2014) 981-1015, arXiv:1307.3632 [hep-th]
78. “A note on permutation twist defects in topological bilayer phases,”  
(with J. Fuchs)  
Lett. Math. Phys. 104 (2014) 1385-1405, arXiv:1310.1329 [hep-th]
79. “A Serre-Swan theorem for gerbe modules on étale Lie groupoids,”  
(with C. Tropp and A. Valentino)  
Theory Appl. Cat. 29 (2014) 819–835, arXiv:1401.2824 [math.AT]
80. “On the Brauer groups of symmetries of abelian Dijkgraaf-Witten theories,”  
(with J. Fuchs, J. Priel and A. Valentino)  
Commun. Math. Phys 339 (2015) 385-405, arXiv:1404.6646 [hep-th]
81. “Partially dualized Hopf algebras have equivalent Yetter-Drinfel’d modules,”  
(with A. Barvels and S. Lentner)  
J. Algebra 430 (2015) 303-342, arXiv:1402.2214 [math.QA]
82. “A trace for bimodule categories,”  
(with J. Fuchs and G. Schaumann)  
Applied Categorical Structures 25 (2017) 227-268, arXiv:1412.6968 [math.CT]
83. “Consistent systems of correlators in non-semisimple conformal field theory,”  
(with J. Fuchs)  
Adv. Math. 307 (2017) 598-639, arXiv:1604.01143 [math.QA]
84. “Frobenius algebras and homotopy fixed points of group actions on bicategories,”  
(with J. Hesse and A. Valentino)  
Theory and Applications of Categories 32 (2017). 652-681, arXiv:1607.05148 [math.QA]
85. “A GNS construction of three-dimensional abelian Dijkgraaf-Witten theories,”  
(with L. Müller)  
Rev. Math. Phys. 30 (2018) 1850005, arXiv:1703.05018 [math.QA]
86. “Hochschild Cohomology and the Modular Group,”  
(with S. Lentner, S. Mierach and Y. Sommerhäuser)  
J. Algebra 507 (2018) 400-420, arXiv:1707.04032 [math.RA]
87. “The logarithmic Cardy case: Boundary states and annuli,”  
(with J. Fuchs, T. Gannon and G. Schaumann)  
Nucl. Phys. B 930 (2018) 287-327, arXiv:1712.01922 [math.QA]
88. “A Parallel Section Functor for 2-Vector Bundles,”  
(with L. Woike)  
Theory and Applications of Categories 33 (2018) 644-690, arXiv:1711.08639 [math.CT]
89. “On unrolled Hopf algebras,”  
(with N. Andruskiewitsch)  
J. Knot Theory and its Ramif. 27 (2018) 1850053, arXiv:1701.00153 [math.QA]

90. “*Orbifold Construction for Topological Field Theories,*”  
(with L. Woike)  
J. Pure and Applied Algebra (223) 2019 1167-1192, arXiv:1705.05171 [math.QA]
91. “*A Parallel Section Functor for 2-Vector Bundles,*”  
(with L. Woike)  
Theory and Applications of Categories 33 (2018) 644-690, arXiv:1711.08639 [math.CT]
92. “*Eilenberg-Watts calculus for finite categories and a bimodule Radford  $S^4$  theorem,*”  
(with J. Fuchs and G. Schaumann)  
Trans. Amer. Math. Soc. 373 (2020) 1-40, arXiv:1612.04561 [math.RT]
93. “*Extended Homotopy Quantum Field Theories and their Orbifoldization,*”  
(with L. Woike)  
Journal of Pure and Applied Algebra (224) 2020, 106213 arXiv:1802.08512 [math.QA]
94. “*On isotypic decompositions for non-semisimple Hopf algebras*”  
(with V. Koppen and E. Meir)  
Algebr. Represent. Theor. (2021). <https://doi.org/10.1007/s10468-021-10029-x>, arXiv:1910.13161 [math.QA]
95. “*Matrix product operator symmetries and intertwiners in string-nets with domain walls,*”  
(with L. Lootens, J. Fuchs, J. Haegeman and Frank Verstraete)  
SciPost Phys. 10, 053 (2021), arXiv:2008.11187 [quant-ph]
96. “*Bulk from boundary in finite CFT by means of pivotal module categories,*”  
(with J. Fuchs)  
Nucl. Phys. B 967 (2021) 115392, arXiv:2012.10159 [hep-th]
97. “*CFT correlators for Cardy bulk fields via string-net models,*”  
(with Y. Yang)  
SIGMA 17 (2021) 040, arXiv:1911.10147 [hep-th]
98. “*Homotopy Coherent Mapping Class Group Actions and Excision for Hochschild Complexes of Modular Categories,*”  
(with L. Woike)  
Adv. Math. 386(2021)107814, arXiv:2004.14343 [math.QA]

### Preprints:

1. “*The Hochschild Complex of a Finite Tensor Category,*”  
(with L. Woike)  
ZMP-HH/19-17, Hamburger Beiträge zur Mathematik Nr. 802, accepted for publication in Algebraic and Geometric Topology, arXiv:1910.00559 [math.QA]
2. “*Davydov-Yetter cohomology, comonads and Ocneanu rigidity,*”  
(with A. Gainutdinov and J. Haferkamp)  
ZMP-HH/19-19, Hamburger Beiträge zur Mathematik Nr. 805, arXiv:1910.06094 [math.QA]
3. “*A modular functor from state sums for finite tensor categories and their bimodules,*”  
(with J. Fuchs and G. Schaumann)  
ZMP-HH/19-22, Hamburger Beiträge zur Mathematik Nr. 812, arXiv:1911.06214 [math.QA]
4. “*Hochschild Cohomology, Modular Tensor Categories, and Mapping Class Groups,*”



- (with S. Lentner, S. Mierach and Y. Sommerhäuser)  
ZMP-HH/20-5, Hamburger Beiträge zur Mathematik Nr. 825, arXiv:2003.06527 [math.QA]
5. “*Module Eilenberg-Watts calculus*,”  
(with J. Fuchs and G. Schaumann)  
ZMP-HH/20-6, Hamburger Beiträge zur Mathematik Nr. 828, arXiv:2003.12514 [math.CT]
  6. “*Internal natural transformations and Frobenius algebras in the Drinfeld center*,”  
(with J. Fuchs)  
ZMP-HH/20-16, Hamburger Beiträge zur Mathematik Nr. 865, arXiv:2008.04199 [math.CT]
  7. “*The Trace Field Theory of a Finite Tensor Category*,”  
(with L. Woike)  
ZMP-HH/21-03, Hamburger Beiträge zur Mathematik Nr. 890, arXiv:2103.15772 [math.QA]
  8. “*Frobenius-Schur Indicators and the Mapping Class Group of the Torus*,”  
(with J. Farnsteiner)  
ZMP-HH/21-05, Hamburger Beiträge zur Mathematik Nr. 893, arXiv:2104.12742 [math.QA]
  9. “*The differential graded Verlinde Formula and the Deligne Conjecture*,”  
(with L. Woike)  
ZMP-HH/21-04, Hamburger Beiträge zur Mathematik Nr. 892, arXiv:2105.01596 [math.QA]
  10. “*Domain walls between 3d phases of Reshetikhin-Turaev TQFTs*,”  
(with V. Koppen, V. Mulevicius and I. Runkel)  
ZMP-HH/21-10, Hamburger Beiträge zur Mathematik Nr. 898, arXiv:2105.04613 [hep-th]
  11. “*Equivariant Morita theory for graded tensor categories*,”  
Authors: César Galindo, David Jaklitsch (with C. Galindo and D. Jaklitsch)  
ZMP-HH/21-14, Hamburger Beiträge zur Mathematik Nr. 902, arXiv:2106.07440 [math.QA]

### 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

### Books edited:

1. “*Noncommutative structures in mathematics and Physics*”,  
(with S. Caenepeel, J. Fuchs, S. Gutt, A. Stolin and F. Van Oystaeyen)  
Royal Flemish Academy of Belgium, Brussels, 2010, ISBN 9789065690616.
2. “*Conformal Field Theories and Tensor Categories*”,  
(with C. Bai, J. Fuchs, Y. Huang, L. Kong and I. Runkel)  
Proceedings of a Workshop Held at Beijing International Center for Mathematical Research  
Springer Verlag Berlin, 2014.
3. “*Representation theory – Current Trends and Perspectives*”,  
(with H. Krause, P. Littelmann, G. Malle and K.-H. Neeb)  
EMS Series of Congress Reports, EMS Publishing House, 2017

## 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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arXiv:hep-th/9612060v1
4. “*Classifying algebras for boundary conditions and traces on spaces of conformal blocks,*”  
(with J. Fuchs)  
in: *Theory of elementary particles*; H. Dorn, D. Lüst, and G. Weigt eds., Wiley-VCH, 1998, p. 13-18, arXiv:hep-th/9801191v1
5. “*D-brane conformal field theory,*”  
(with J. Fuchs)  
in: *Theory of elementary particles*; H. Dorn, D. Lüst, and G. Weigt eds., Wiley-VCH, 1998, p. 7-12, arXiv:hep-th/9801190v1
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
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