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Personal

Date and place of birth 30 May 1980, Avellino (Italy)
Citizenship Italian
Home address Sandweg 14, 20257, Hamburg (Germany)

Education

2012-2013 “Vertretungsprofessur” (Stand-in Professor), Dept. of Math., Hamburg University
Hamburg, Germany
2010-present Post-Doctoral Fellow, Dept. of Math., Hamburg University
Hamburg, Germany
2008-2010 Post-Doctoral Fellow, Courant Research Centre “Higher Order Structures”
Göttingen, Germany
2005-2008 Graduate student, Heriot-Watt University, Edinburgh, UK
July 2004 “Esame di Laurea” (Master degree), passed with 110/110 summa cum laude
(full marks and honors)
1999-2004 attended “Facolta’ di Fisica” (Physics course)
at Universita’ Federico II, Naples
July 1999 “Esame di Stato” (High school degree), passed with 100/100 (highest mark)
1994-1999 attended high school Liceo Scientifico
“P.S. Mancini”, Avellino

List of publications

- D. Fiorenza and A. Valentino, *Boundary conditions in 4d Topological Quantum Field Theories, Anomalies and Projective Modular Functors*, to appear
- J. Fuchs, J. Priel, C. Schweigert and A. Valentino, *On the Brauer groups of symmetries of abelian Dijkgraaf-Witten theories*, [arXiv:1404.6646]
- C. Schweigert, C. Tropp and A. Valentino, *A Serre-Swan theorem for gerbe modules on étale Lie groupoids*, [arXiv:1401.2824]
- J. Fuchs, C. Schweigert, and A. Valentino, *A geometric approach to boundaries and surface defects in Dijkgraaf-Witten theories*, to appear in Comm. Math. Phys., DOI: 10.1007/s00220-014-2067-0, [arXiv:1307.3632]

- A. Kahle and A. Valentino, *T-duality and Differential K-theory*, Commun. Contemp. Math. (2013), DOI: 10.1142/S0219199713500144 [arXiv:0912.2516]
- J. Fuchs, C. Schweigert and A. Valentino, *Bicategories for Boundary Conditions and for Surface Defects in 3-d TFT*, Comm. Math. Phys. 321 (2013), no. 2, 543-575 [arXiv:1203.4568]
- R. Szabo and A. Valentino, *Ramond-Ramond Fields, Fractional Branes and Orbifold Differential K-theory*, Comm. Math. Phys. 294 (2010), 647-702 [arXiv:0710.2773]
- R. Reis, R. Szabo and A. Valentino, *KO-Homology and Type I String Theory*, Rev. Math. Phys. 21 (2009), 1091-1143 [arXiv:hep-th/0610177]
- A. D'Avanzo, G. Marmo and A. Valentino *Reduction and Unfolding for Quantum Systems: the Hydrogen Atom*, Int.J.Geom.Meth.Mod.Phys. 2 (2005), 1043-1062 [arXiv:math-ph/0504033]

Invited Speaker

- *Boundary conditions for 3d TQFTs and module categories*, Modern trends in topological quantum field theory, Vienna, 17 February 2014
- *A geometric approach to boundaries and surface defects in Dijkgraaf-Witten theories*, EMPG Seminar, Edinburgh, 22 January 2014
- *Boundary conditions for 3d TQFTs and module categories*, Algebra and Geometry Seminar, Rome La Sapienza, 6 March 2013
- *Boundary conditions for 3d TQFTs and module categories*, Max Planck Institut, Bonn, 17 April 2013
- *T-duality and differential K-theory*, Quarterly Seminar on Topology and Geometry, Universiteit Utrecht, 20 May 2011
- *Workshop on Deligne Cohomology and differential characters*, University of Copenhagen, 2-6 August 2010
- *Twisted bundles and K-theory*, Atiyah 80 Plus, ICMS, 23 April 2010
- *T-duality and differential K-theory*, Scottish Topology Seminars, University of Edinburgh, 26 February 2010
- *Differential Cohomology and Quantum Gauge Fields*, Oberseminar Globale Analysis, Universität Regensburg, 23 July 2009
- *Mathematical topics on D-branes and Ramond-Ramond fields*, Graduiertenkolleg, Mathematisches Institut, Goettingen, 23 October 2008
- *Differential Cohomology and Quantum Gauge Fields*, Workshop on Quantum Fields and Non-commutative Geometry, 11 July 2008, Goettingen
- *Orbifold differential K-theory from String Theory*, 22nd British Topology Meeting, 10 - 12 September 2007, Sheffield, UK
- *Differential Cohomology and Gauge theories*, North British Mathematical Physics Seminar, 21 March 2007, Edinburgh, UK

Teaching

- 2012-2013 Stand-in professor for Software-Praktikum (Hamburg Universität)
Fall 2012 PrepCourse: Concepts and Methods of Mathematical Physics (Hamburg Universität)
2010 lectured Geometrical Methods in Algebraic Topology: an introduction (Göttingen University)
2009-2010 tutored Microlocal Analysis (Göttingen University)
2008-2009 tutored Lie Algebra (Göttingen University)
2007 -2008 tutored Algebra 1, Algebra 2, Algebra 3 (Heriot-Watt University)

Students

- 2012-2013 Christopher Tropp (together with C. Schweigert)
with Master Thesis: *A Serre-Swann Type Theorem for Gerbe Modules*

Other Activities

- 2010- 2014 Co-organized the Research Seminar, Hamburg University
2010 Co-organized the School on "School Higher Index Theory and Differential K-Theory"
October 18 - 22, 2010, Göttingen
2005-2008 Organised the Mathematical Physics Speakers' Corner, Edinburgh

Awards

- 2005 Graduate scholarship, Heriot Watt University
1999-2004 Undergraduate scholarships, E.D.I.S.U., Naples

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- A. Kahle and A. Valentino, *T-duality and Differential K-theory*, *Commun. Contemp. Math.* (2013), DOI: 10.1142/S0219199713500144, [arXiv:0912.2516]
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