
Curriculum Vitæ

Name: Paul Francis de Medeiros

Title: Associate Professor of Mathematics

Affiliation: Institute for Mathematics and Physics, University of Stavanger, Norway

Duration: April 2016 - present

Previous Affiliations

Institution: School of Mathematics, Cardiff University, UK

Position: Postdoctoral Research Assistant

Duration: December 2011 - December 2013

Institution: School of Mathematics, University of Edinburgh, UK

Position: Postdoctoral Research Assistant and William Gordon Seggie Brown Fellow

Duration: September 2006 - November 2011

Institution: Michigan Center for Theoretical Physics, University of Michigan, USA

Position: Postdoctoral Research Assistant

Duration: September 2004 - August 2006

Institution: Particle Theory Group, Swansea University, UK

Position: Postdoctoral Research Assistant

Duration: October 2002 - August 2004

List of Publications

Title: Killing superalgebras for Lorentzian six-manifolds

Authors: P. de Medeiros, J. Figueroa-O'Farrill, A. Santi

Journal: J. Geom. Phys. 132 (2018) 13-44

Preprint: arXiv:1804.00319 [hep-th]

Title: Killing superalgebras for Lorentzian four-manifolds

Authors: P. de Medeiros, J. Figueroa-O'Farrill, A. Santi

Journal: JHEP 1606 (2016) 106

Preprint: arXiv:1605.00881 [hep-th]

Title: Supersymmetric Yang-Mills theory on conformal supergravity backgrounds in ten dimensions

Authors: P. de Medeiros, J. Figueroa-O'Farrill

Journal: JHEP 1603 (2016) 087

Preprint: arXiv:1512.08342 [hep-th]

Title: Submaximal conformal symmetry superalgebras for Lorentzian manifolds of low dimension

Author: P. de Medeiros

Journal: JHEP 1602 (2016) 008

Preprint: arXiv:1406.5166 [hep-th]

Title: Superconformal quantum field theory in curved spacetime

Authors: P. de Medeiros, S. Hollands

Journal: Class. Quant. Grav. 30 (2013) 175015

Preprint: arXiv:1305.0499 [hep-th]

Title: Conformal symmetry superalgebras

Authors: P. de Medeiros, S. Hollands

Journal: Class. Quant. Grav. 30 (2013) 175016

Preprint: arXiv:1302.7269 [hep-th]

Title: Rigid supersymmetry, conformal coupling and twistor spinors

Author: P. de Medeiros

Journal: JHEP 1409 (2014) 032

Preprint: arXiv:1209.4043 [hep-th]

Title: On the structure of quadrilateral brane tilings

Author: P. de Medeiros

Journal: JHEP 1201 (2012) 131

Preprint: arXiv:1105.5347 [hep-th]

Title: Eulerian digraphs and toric Calabi-Yau varieties

Author: P. de Medeiros

Journal: JHEP 1107 (2011) 051

Preprint: arXiv:1011.2963 [hep-th]

Title: Half-BPS M2-brane orbifolds

Authors: P. de Medeiros, J. Figueroa-O'Farrill

Journal: Adv. Theor. Math. Phys. 16 5 (2012) 1349-1409

Preprint: arXiv:1007.4761 [hep-th]

Title: Half-BPS quotients in M-theory: ADE with a twist

Authors: P. de Medeiros, J. Figueroa-O'Farrill, S. Gadhia, E. Méndez-Escobar

Journal: JHEP 0910 (2009) 038

Preprint: arXiv:0909.0163 [hep-th]

Title: Superpotentials for superconformal Chern-Simons theories from representation theory

Authors: P. de Medeiros, J. Figueroa-O'Farrill, E. Méndez-Escobar

Journal: J.Phys. A: Math. Theor. 42 (2009) 485204

Preprint: arXiv:0908.2125 [hep-th]

Title: Metric 3-Lie algebras for unitary Bagger-Lambert theories

Authors: P. de Medeiros, J. Figueroa-O'Farrill, E. Méndez-Escobar, P. Ritter

Journal: JHEP 0904 (2009) 037

Preprint: arXiv:0902.4674 [hep-th]

Title: On the Lie-algebraic origin of metric 3-algebras

Authors: P. de Medeiros, J. Figueroa-O'Farrill, E. Méndez-Escobar, P. Ritter

Journal: Commun. Math. Phys. 290 (2009) 871-902

Preprint: arXiv:0809.1086 [hep-th]

Title: Metric Lie 3-algebras in Bagger-Lambert theory

Authors: P. de Medeiros, J. Figueroa-O'Farrill, E. Méndez-Escobar

Journal: JHEP 0808 (2008) 045

Preprint: arXiv:0806.3242 [hep-th]

Title: Lorentzian Lie 3-algebras and their Bagger-Lambert moduli space

Authors: P. de Medeiros, J. Figueroa-O'Farrill, E. Méndez-Escobar

Journal: JHEP 0807 (2008) 111

Preprint: arXiv:0805.4363 [hep-th]

Title: G2 Hitchin functionals at one loop

Authors: J. de Boer, P. de Medeiros, S. El-Showk, A. Sinkovics

Journal: Class. Quant. Grav. 25 (2008) 075006

Preprint: arXiv:0706.3119 [hep-th]

Title: Open G2 strings

Authors: J. de Boer, P. de Medeiros, S. El-Showk, A. Sinkovics

Journal: JHEP 0802 (2008) 012

Preprint: hep-th/0611080

Title: Topological membrane theory from Mathai-Quillen formalism

Authors: L. Anguelova, P. de Medeiros, A. Sinkovics

Journal: Adv. Theor. Math. Phys. 10 (2006) 713-745

Preprint: hep-th/0507089

Title: On topological F-theory

Authors: L. Anguelova, P. de Medeiros, A. Sinkovics

Journal: JHEP 0505 (2005) 021

Preprint: hep-th/0412120

Title: Non-associative gauge theory and higher spin interactions

Authors: P. de Medeiros, S. Ramgoolam

Journal: JHEP 0503 (2005) 072

Preprint: hep-th/0412027

Title: Massive gauge-invariant field theories on spaces of constant curvature

Author: P. de Medeiros

Journal: Class. Quant. Grav. 21 (2004) 2571

Preprint: hep-th/0311254

Title: Spacetime Virasoro algebra from strings on zero radius AdS3

Authors: P. de Medeiros, S.P. Kumar

Journal: JHEP 0312 (2003) 043

Preprint: hep-th/0310040

Title: Geometric second order field equations for general tensor gauge fields

Authors: P. de Medeiros, C. Hull

Journal: JHEP 0305 (2003) 019

Preprint: hep-th/0303036

Title: Four-dimensional topological Einstein-Maxwell gravity

Authors: P. de Medeiros, B. Spence

Journal: Class. Quant. Grav. 20 (2003) 2075-2086

Preprint: hep-th/0209115

Title: Exotic tensor gauge theory and duality

Authors: P. de Medeiros, C. Hull

Journal: Commun. Math. Phys. 235 (2003) 255-273

Preprint: hep-th/0208155

Title: Conformal topological Yang-Mills theory and de Sitter holography

Authors: P. de Medeiros, J. M. Figueroa-O'Farrill, C. M. Hull, B. Spence

Journal: JHEP 0208 (2002) 055

Preprint: hep-th/0111190