

Complete list of publications

1. Publications in international journals with peer-review

1. R.S. Kraußhar: Conformal mappings revisited in the octonions and Clifford algebras of arbitrary dimension, submitted for publication (2019) (12 pages).
2. R.S. Kraußhar: Function Theories in Cayley-Dickson algebras and Number Theory, submitted for publication (2019) (19 pages) Online available on: <http://arxiv.org/abs/1912.01351>
3. F. Colombo, R.S. Kraußhar and I. Sabadini: Symmetries of slice monogenic functions, accepted for publication (2019), to appear in *Journal of Non-Commutative Geometry* (24 pages)
4. K. Diki, R.S. Kraußhar and I. Sabadini: On the Bargmann-Fock-Fueter and Bergman Fueter integral transforms, *Journal of Mathematical Physics* **60** No. 8 083506 (2019), 26p. DOI: 10.1063/1.5094384.
5. M. Ferreira, R.S. Kraußhar, M.M. Rodrigues and N. Vieira: A higher dimensional fractional Borel-Pompeiu formula and a related hypercomplex fractional operator calculus, *Mathematical Methods in the Applied Sciences* **42** No. 10 (2019), 3633-3653 <https://doi.org/10.1002/mma.5602>
6. R. De Almeida and R.S. Kraußhar: Wiman-Valiron theory for higher dimensional polynomial Cauchy-Riemann equations, *Mathematical Methods in the Applied Sciences* **41** No. 1 (2018), 15-27.
7. R.S. Kraußhar, M. Rodrigues and N. Vieira: Maximum principle and parabolic inequalities for the regularized Schrödinger operator, *Results Math.* **69** No.1-2 (2016), 49-68.
8. R.S. Kraußhar, M. Rodrigues and N. Vieira: Time-dependent operators on some non-orientable projective orbifolds, *Mathematical Methods in the Applied Sciences* **38** No. 18 (2016), 5305-5319
9. R. De Almeida and R.S. Kraußhar: Generalized growth orders for polynomogenic functions and related inequalities, *Complex Analysis an Operator Theory* **10** No.2 (2016), 233-250.
10. R.S. Kraußhar: Dirac and Laplace operators on some non-orientable conformally flat manifolds, *Journal of Mathematical Analysis and its Applications* **427** No. 2 (2015), 669-685.
11. R. De Almeida and R.S. Kraußhar: Basics on growth orders of polynomogenic functions, *Complex Variables and Elliptic Equations* **60** No. 11, (2015), 1480-1504.
12. R.S. Kraußhar and J. Tolksdorf: Applications of hypercomplex automorphic forms in Yang-Mills gauge theories, *Complex Analysis and Operator theory* **9** (2015), 431-444.
13. D. Grob and R.S. Kraußhar: A Selberg trace formula for hypercomplex analytic cusp forms, *Journal of Number Theory* **148** (2015), 398-428.
14. R.S. Kraußhar, M. Rodrigues and N. Vieira: Hodge type decomposition for time dependent first order parabolic operators with non-constant coefficients: the variable exponent case, *Milan Journal of Mathematics* **82** (2014), 407-422.
15. R.S. Kraußhar, M.M. Rodrigues and N. Vieira: Hodge decomposition for some first order time dependent parabolic operators with non-constant coefficients, *Annali di Matematica Pura ed Applicata* **193** (2014), 1807-1821.

16. R.S. Kraußhar: Applications of the quaternionic calculus to the convective stationary MHD equations in \mathbb{R}^n , *Advances in Applied Clifford Algebras* **24** No. 4 (2014), 1047-1058.
17. R.S. Kraußhar, M.M. Rodrigues and N. Vieira: The Schrödinger semigroup on some flat and non flat manifolds, *Complex Analysis and Operator Theory* **8** No. 2 (2014), 461-484.
18. R.S. Kraußhar: The Klein-Gordon operator on Möbius strip domains and the Klein bottle in \mathbb{R}^n , *Mathematical Physics, Analysis and Geometry* **16** (2013), 363-379.
19. D. Constaes, R. De Almeida and R.S. Kraußhar: The Fourier expansion of the hypermonogenic generalized trigonometric and elliptic functions, *J. Number Theory* **133** (2013), 1991-2004.
20. D. Constaes, D. Grob and R.S. Kraußhar: A new class of hypercomplex analytic cusp forms, *Transactions of the AMS* **365** No. 2 (2013), 811-835.
21. D. Constaes, D. Grob and R.S. Kraußhar: On Dirichlet problems of polynomial Dirac equations with boundary conditions, *Results in Math.* **64** (2013), 193-213.
22. D. Constaes, R.S. Kraußhar and J. Ryan: Hyperbolic Dirac and Laplace Operators on examples of Hyperbolic spin manifolds, *Houston J. Math.* **38** No. 2 (2012), 405-420.
23. R.S. Kraußhar. The Helmholtz operator on higher dimensional Möbius strips, *Advances in Applied Clifford Algebras* **22** No. 3 (2012), 745-755.
24. D. Grob and R.S. Kraußhar: The Szegö metric associated to Hardy spaces of Clifford algebra valued functions and some geometric properties, *Complex Analysis and Operator Theory* **6** No. 2 (2012), 491-513.
25. R.S. Kraußhar and N. Vieira: The Schrödinger equation on cylinders and the n-torus, *J. Evol. Equ.* **11** (2011), 215-237.
26. D. Constaes, N. Faustino and R.S. Kraußhar: Fock spaces, Landau operators and the time-harmonic Maxwell equations, *J. Phys. A: Mathematical and Theoretical* **44** (2011), 135303, 31pp.
27. S. Bernstein, S. Ebert and R.S. Kraußhar: On the diffusion equation and diffusion wavelets on flat cylinders and the n-torus, *Math. Meth. Appl. Sci.* **34** No. 4 (2011), 428-441.
28. D. Constaes, R. De Almeida and R.S. Kraußhar: Fundamentals of a generalized Wiman-Valiron theory for solutions to the Dirac-Hodge equation on upper half-space of \mathbb{R}^{n+1} , *J. Anal. Appl.* **378** (2011), 238-251.
29. E. Bulla, D. Constaes, R.S. Kraußhar and J. Ryan: Dirac Type Operators for Arithmetic Subgroups of Generalized Modular Groups, *J. Reine Angew. Math. (Crelle)* **643** (2010), 1-19.
30. D. Constaes, D. Grob and R.S. Kraußhar: Explicit formulas for the Green's function and the Bergman kernel for monogenic functions in annular shaped domains in \mathbb{R}^{n+1} , *Results in Mathematics* **58** (2010), 173-179.
31. D. Constaes, D. Grob and R.S. Kraußhar: On generalized Helmholtz type equations in concentric annular domains in \mathbb{R}^3 , *Math. Meth. Appl. Sci.* **33** No. 4 (2010), 431-438.
32. D. Constaes, D. Grob and R.S. Kraußhar: Constructing 3D mappings onto the unit sphere with the hypercomplex Szego kernel, *J. Comput. Appl. Math.* **233** No. 11 (2010), 2884-2910.

33. D. Constaes, R. De Almeida and R.S. Kraußhar: Basics of a generalized Wiman-Valiron theory for monogenic Taylor series of finite convergence radius, *Math. Z.* **266** (2010), 665-881.
34. D. Constaes and R.S. Kraußhar: Multiperiodic eigensolutions to the Dirac operator and applications to the generalized Helmholtz equation on flat cylinders and on the n-torus, *Math. Meth. Appl. Sci.* **32** (2009), 2050-2070.
35. D. Constaes, D. Grob and R.S. Kraußhar: Reproducing kernel functions of solutions to polynomial Dirac equations in the annulus of the unit ball in \mathbb{R}^n and applications to boundary value problems, *J. Math. Anal. Appl.* **358** No. 2 (2009), 281-293.
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37. D. Constaes, R. De Almeida and R.S. Kraußhar: A Generalization of Wiman and Valiron's theory to the Clifford analysis setting, *Cubo* **11** No. 1 (2009), 1-20.
38. I. Cação, D. Constaes and R.S. Kraußhar: On rotationally symmetric Dirac equations and hypergeometric functions I, *Arch. Math.* **90** No. 5 (2008), 440-449.
39. D. Constaes and R.S. Kraußhar: On the Navier-Stokes equation with Free Convection in three dimensional unbounded triangular channels, *Math. Meth. Appl. Sci.* **31**, No. 6 (2008), 735-751.
40. H. Albuquerque and R.S. Kraußhar: Multiplicative invariant lattices in \mathbb{R}^n obtained by twisting of group algebra and some explicit characterizations, *J. Algebra* **319**, No. 3 (2008), 1116-1131.
41. D. Constaes, R. De Almeida and R.S. Kraußhar: Applications of the maximum term and the central index in the asymptotic growth analysis of entire solutions to higher dimensional polynomial Cauchy-Riemann equations, *Complex Variables* **53** No. 3 (2008), 195-213.
42. D. Constaes, R.S. Kraußhar and J. Ryan: k-hypermonogenic automorphic forms, *J. Number Theory* **126**, No. 2, (2007), 254-271.
43. R.S. Kraußhar and J. Ryan: Some Conformally Flat Spin Manifolds, Dirac Operators and Automorphic Forms, *J. Math. Anal. Appl.* **325** No. 1 (2007), 359-376.
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45. D. Constaes, R. De Almeida and R.S. Kraußhar: On the relation between the growth and the Taylor coefficients of entire solutions to the higher dimensional Cauchy-Riemann system in \mathbb{R}^{n+1} , *J. Math. Anal. Appl.* **327** No. 2 (2007), 763-775.
46. I. Cação, D. Constaes and R.S. Kraußhar: On the role of arbitrary order Bessel functions in higher dimensional Dirac type equations, *Arch. Math.* **87** No. 5 (2006), 468-477.
47. D. Constaes, R. De Almeida and R.S. Kraußhar: On Cauchy estimates and growth orders of entire solutions of iterated Dirac and generalized Cauchy-Riemann equations, *Math. Meth. Appl. Sci.* **29** No. 14 (2006), 1663-1686.
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49. D. Constaes and R.S. Kraußhar: Bergman Spaces of higher dimensional hyperbolic polyhedron type domains I, *Math. Meth. Appl. Sci.* **29** No. 1 (2006), **85-98**.
50. R.S. Kraußhar, Qiao Yuying and J. Ryan: Harmonic, Monogenic and Hypermonogenic Functions on Some Conformally Flat Manifolds in \mathbf{R}^n arising from Special Arithmetic Groups of the Vahlen Group. *Contemporary Mathematics, Amer. Math. Soc.* **370** (2005), 159-173.
51. R.S. Kraußhar and J. Ryan: Clifford and Harmonic Analysis on Cylinders and Tori, *Rev. Mat. Iberoam.* **21** (2005), 87-110.
52. R. De Almeida and R.S. Kraußhar: On the asymptotic growth of entire monogenic functions, *Z. Anal. Anw.* **24** No. 4 (2005), 791-813.
53. D. Constaes and R.S. Kraußhar: Hilbert Spaces of Solutions to Polynomial Dirac equations, Fourier Transforms and Reproducing Kernel Functions for Cylindrical Domains, *Z. Anal. Anw.* **24** No. 3 (2005), 611-636.
54. D. Constaes and R.S. Kraußhar: The Bergman Kernels for the half-ball and for fractional wedge-shaped domains in Clifford Analysis, *Forum Math.* **17** No. 5 (2005), 809-821.
55. R.S. Kraußhar: Generalized Analytic Automorphic Forms for some Arithmetic Congruence subgroups of the Vahlen group on the n-Dimensional Hyperbolic Space, *Bull. Belg. Math. Soc. – Simon Stevin* **11** No. 5 (2004), 759-774.
56. R.S. Kraußhar: The Multiplication of the Clifford-analytic Eisenstein Series, *J. Number Theory* **102** (2003), 353-382.
57. T. Hempfling and R.S. Kraußhar: Order Theory for Isolated Points of Monogenic Functions, *Arch. Math.* **80** (2003), 406-423.
58. D. Constaes and R.S. Kraußhar: Closed formulas for singly-periodic monogenic cotangent, cosecant and cosecant-squared functions in Clifford Analysis, *J. Lond. Math. Soc. Ser II* **67** No. 2 (2003), 401-416.
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62. R.S. Kraußhar: Monogenic Modular Forms in Two and Several Real and Complex Vector Variables, *Comput. Methods Funct. Theory* **2** No. 2 (2002), 299-318.
63. R.S. Kraußhar: Eisenstein Series in Complexified Clifford Analysis, *Comput. Methods Funct. Theory* **2** No. 1 (2002), 29-65.
64. R.S. Kraußhar: Automorphic forms in Clifford analysis, *Complex Variables* **47** No. 5 (2002), 417-440.
65. R. Delanghe, R.S. Kraußhar and H.R. Malonek: Differentiability of functions with values in some real associative algebras: approaches to an old problem, *Bull. Soc. R. Sci. Liège* **70** No. 4-6 (2001), 35-49.
66. R.S. Kraußhar and H.R. Malonek: A characterization of conformal mappings in \mathbf{R}^4 by a formal differentiability condition, *Bull. Soc. R. Sci. Liège* **70** No. 1 (2001), 231-249.

67. R.S. Kraußhar: On a new type of Eisenstein series in Clifford analysis, *Z. Anal. Anw.* **20** No. 4 (2001), 1007-1029.
68. R.S. Kraußhar: Monogenic multiperiodic functions in Clifford analysis, *Complex Variables* **46** No. 4 (2001), 337-368.

2. Books

1. R.S. Kraußhar: *Generalized Analytic Automorphic Forms in Hypercomplex Spaces*, Frontiers in Mathematics, Birkhäuser, Basel, 2004, 184 Seiten. [ISBN 3-7643-7059-9]
2. R.S. Kraußhar: *Eisenstein Series in Clifford Analysis* (Dissertation RWTH Aachen), Aachener Beiträge zur Mathematik (Band 28), Wissenschaftsverlag Mainz, Aachen, 2000, 141 Seiten. [ISBN 3-86073-648-5]

3. Chapters in books

1. P. Cerejeiras, U. Kähler and R.S. Kraußhar: Applications of parabolic Dirac operators to the instationary viscous MHD equations on conformally flat manifolds, in: *Topics in Clifford Analysis*, [eds. S. Bernstein], Trends in Mathematics, Birkhäuser, Basel, 2019, 173-190. [ISBN 978-3-030-23854-4]
2. R.S. Kraußhar: Automorphic Forms and Dirac Operators and Conformally Flat Manifolds, in: *Topics in Clifford Analysis*, [eds. S. Bernstein], Trends in Mathematics, Birkhäuser, Basel, 2019, 331-345. [ISBN 978-3-030-23854-4]
3. P. Cerejeiras, U. Kähler and R.S. Kraußhar: Some applications of parabolic Dirac operators to the instationary Navier-Stokes problem on conformally flat cylinders and tori in \mathbb{R}^3 . In: *Clifford Analysis and Related Topics CART 2014*, [eds. P. Cerejeiras, C. Nolder, J. Ryan, J. Vanegas]. Springer Proceedings in Mathematics & Statistics **260**, 19-37, Springer, Cham, 2018, 19-37. [ISBN 978-3-030-00047-9/hbk; 978-3-030-00049-3/ebook].
4. R.S. Kraußhar: On the incompressible viscous MHD equations and explicit solution formulas for some three dimensional radially symmetric domains, in: *Hypercomplex Analysis and Applications*, [eds. I. Sabadini, F. Sommen] Trends in Mathematics, Birkhäuser, Basel 2011, 125-137. [DOI: 10.1007/978-3-0346-0246-4_9]
5. R.S. Kraußhar: On the Klein-Gordon equation on some examples of conformally flat spin 3-manifolds, in: *Recent advances in computational and applied Mathematics*, [eds. T. Simos], Springer, Dordrecht, 2011 [DOI: 10.1007/978-90-481-9981-5_9]
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8. R.S. Kraußhar: Generalizations of the Complex Analytic Trigonometric Functions to Clifford Analysis by Eisenstein Series, in: *Functional-Analytic and complex methods, their interactions, and Applications to Partial Differential Equations*, [eds. H. Florian et al.], World Scientific, 2001, 438-456. [ISBN 981-02-4764-8]

4. Proceedings

1. N. Faustino, K. Gürlebeck and R.S. Kraußhar: Preface 14th Symposium on Clifford Analysis and Applications, angenommen zur Veröffentlichung in *American Institute of Physics Conference Proceedings* (16th International Conference on Numerical and Applied Mathematics ICNAAM 2018), 2 pp
2. M. Ferreira, R.S. Kraußhar, M.M. Rodrigues and N. Vieira: Application of the hypercomplex fractional integro-differential operators to the fractional Stokes equation angenommen zur Veröffentlichung in *American Institute of Physics Conference Proceedings* (16th International Conference on Numerical and Applied Mathematics ICNAAM 2018), 4 pp
3. K. Gürlebeck, R.S. Kraußhar and W. Sprößig: Preface 13th Symposium on Clifford Analysis and Applications, *American Institute of Physics Conference Proceedings* (15th International Conference on Numerical and Applied Analysis ICNAAM 2017), 2 pp
4. R. De Almeida and R.S. Kraußhar. On the growth type of entire solutions to higher dimensional polynomial Cauchy-Riemann equations, *American Institute of Physics Conference Proceedings* (15th International Conference on Numerical and Applied Analysis ICNAAM 2017), 4 pp.
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6. D. Constaes, R. De Almeida and R.S. Kraußhar. On a generalization of Valiron's inequality for k-hypermonogenic functions on upper half-space, *American Institute of Physics Conference Proceedings* **1281** vol. 3. (2010), 1464-1468.
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9. K. Gürlebeck, R.S. Kraußhar and S. Poedts: A quaternionic approach to treat the ideally stationary magnetohydrodynamic equations, *American Institute of Physics Conference Proceedings* **1168** Vol. 2 (2009), 789-792.
10. D. Constaes and R.S. Kraußhar: On the Klein-Gordon equation on the 3-torus, *Proceedings of the 18th International Conference on the Application of Computer Science and Mathematics in Architecture and Civil Engineering IKM 2009*, 7.-9. Juli 2009, Weimar [eds. K. Gürlebeck, C. Könke]

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12. I. Cação, D. Constaes and R.S. Kraußhar: A unified approach for the treatment of some higher dimensional Dirac type equations on spheres, *Proceedings of the 18th International Conference on the Application of Computer Science and Mathematics in Architecture and Civil Engineering IKM 2009*, 7.-9. Juli 2009, Weimar [eds. K. Gürlebeck, C. Könke]
13. D. Constaes and R.S. Kraußhar: On the Navier-Stokes equations with Free Convection in 3D triangular symmetric channels, *American Institute of Physics Conf. Proc.* **936**, 2007, pp. 623-626.
14. R.S. Kraußhar and J. Tolksdorf: Applications of hyper-complex analysis in Yang-Mills gauge theories, *American Institute of Physics Conf. Proc.* **936**, 2007, pp. 754-757.
15. I. Cação, D. Constaes and R.S. Kraußhar: On the role of hypergeometric functions in Dirac type equations, *American Institute of Physics Conf. Proc.* **936**, 2007, pp. 726-729.
16. D. Constaes, R. De Almeida and R.S. Kraußhar: Growth orders of monogenic functions in the ball, *American Institute of Physics Conf. Proc.* **936**, 2007, pp. 730-733.
17. D. Constaes and R.S. Kraußhar: Explicit solutions of the stationary Navier-Stokes equation in a class of reflection symmetric domains, in: *Proceedings of the International Conference of Numerical Analysis and Applied Mathematics ICNAAM 2006*, 15.-19. September 2006, Kreta, Griechenland, [eds. T. E. Simos], Wiley VCH, Weinheim 2006
18. D. Constaes and R.S. Kraußhar: On the Navier-Stokes equation with Free Convection in strip domains and 3D triangular channels, in: *17th International Conference on the Application of Computer Science and Mathematics in Architecture and Civil Engineering IKM 2006*, 12.-14. Juli 2006, Weimar, [eds. K. Gürlebeck, C. Könke]
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21. R.S. Kraußhar and J. Ryan: Analysis of Dirac Operators on some Conformally Flat Manifolds, in *17th International Conference on the Application of Computer Science and Mathematics in Architecture and Civil Engineering IKM 2006*, 12.-14. Juli 2006, Weimar [eds. K. Gürlebeck, C. Könke]

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5. Edition of volumes

1. Edition of the special issue *Bulletin of the Belgian Mathematical Society – Simon Stevin* Vol. 11, No.5 (2004) [mit Paul Leopardi, UNSW Sydney]
2. Edition of the special issue *Advances in Applied Clifford Algebras* Vol. 17 No. 2 (2007) [mit Sirkka-Liisa Eriksson, Technical University Tampere]