

Prof. Dr. Christian Bär

Curriculum Vitae

Professional Experience

since 2003 Full Professor, *University of Potsdam* 1999-
2003 Full Professor, *University of Hamburg* 1994-1999
Associate Professor, *University of Freiburg*
1990 Award of the Doctoral Degree, *University of Bonn*

Achievements

since 2024 Editor in Chief of *zbmath open*
since 2023 Managing Editor of *Documenta Mathematica*
since 2017 Deputy Speaker of Priority Programme *Geometry at Infinity* funded by DFG
since 2016 Member of the Mathematics Panel of the German Science Foundation (DFG)
2011-2012 President of the *German Mathematical Society (DMV)*
2009-2010 Vice President of the *German Mathematical Society (DMV)*

Institute for Mathematics, University of Potsdam



Selected Publications

- [1] Christian Bär and Lashi Bandara, *Boundary value problems for general first-order elliptic differential operators*, J. Funct. Anal. **282** (2022), Paper No. 109445, 69.
- [2] Christian Bär and Bernhard Hanke, *Local flexibility for open partial differential relations*, Comm. Pure Appl. Math. **75** (2022), 1377-1415.
- [3] Christian Bär and Alexander Strohmaier, *An index theorem for Lorentzian manifolds with compact spacelike Cauchy boundary*, Amer. J. Math. **141** (2019), 1421-1455.
- [4] Christian Bär and Frank Pfäffle, *Path integrals on manifolds by finite dimensional approximation*, J. Reine Angew. Math. **625** (2008), 29-57.
- [5] Christian Bär, Paul Gauduchon, and Andrei Moroianu, *Generalized cylinders in semi-Riemannian and Spin geometry*, Math. Z. **249** (2005), 545-580.
- [6] Christian Bär and M. Dahl, *Small eigenvalues of the conformal Laplacian*, Geom. Funct. Anal. **13** (2003), 483-508.
- [7] Christian Bär and Mattias Dahl, *Surgery and the spectrum of the Dirac operator*, J. Reine Angew. Math. **552** (2002), 53-76.
- [8] Christian Bär, *The Dirac operator on hyperbolic manifolds of finite volume*, J. Differential Geom. **54** (2000), 439-488.
- [9] _____, *Zero sets of solutions to semilinear elliptic systems of first order*, Invent. Math. **138** (1999), 183-202.
- [10] _____, *Metrics with harmonic spinors*, Geom. Funct. Anal. **6** (1996), 899-942.
- [11] _____, *Real Killing spinors and holonomy*, Comm. Math. Phys. **154** (1993), 509-521.
- [12] _____, *Lower eigenvalue estimates for Dirac operators*, Math. Ann. **293** (1992), 39-46.