

# List of Publications

Michael Röckner

May 12, 2024

1. *Markov property of generalized fields and axiomatic potential theory*, Math. Ann. **264** (1983), 157–177.
2. *Self-adjoint harmonic spaces and Dirichlet forms*, Hiroshima Math. J. **14** (1984), 55–66.
3. *Dirichlet forms: closability and change of speed measure* (with Norbert Wielens), Infinite dimensional analysis and stochastic processes (S. Albeverio, ed.), Research Notes in Mathematics, vol. 124, Pitman, Boston, London, Melbourne, 1985, pp. 119–144.
4. *Capacity, Green's functions and Schrödinger operators* (with Sergio Albeverio, Withold Karwowski, and Ludwig Streit), Infinite dimensional analysis and stochastic processes (Sergio Albeverio, ed.), Research Notes in Mathematics, vol. 124, Pitman, Boston, London, Melbourne, 1985, pp. 197–215.
5. *Generalized Markov fields and Dirichlet forms*, Acta Appl. Math. **3** (1985), 285–311.
6. *A Dirichlet problem for distributions and specifications for random fields*, Memoirs of the Am. Math. Soc. **54** (1985), 324.
7. *Specifications and Martin boundaries for  $P(\varphi)_2$ -random fields*, Commun. Math. Phys. **106** (1986), 105–135.
8. *On the transition function of the infinite dimensional Ornstein–Uhlenbeck process given by the free quantum field*, Potential Theory (J. Kral et al., eds.), Plenum Press, New York, London, 1988, pp. 277–293.
9. *\*Traces of harmonic functions and a new path space for the free quantum field*, J. Funct. Anal. **79** (1988), 211–249.
10. *On Dirichlet forms on topological vector spaces: existence and maximality* (with Sergio Albeverio), Proc. Bad Honnef Conference June 1988 (N. Christopeit et al., eds.), Lect. Notes Inform. Control, vol. 126, Springer, Berlin, 1989, pp. 14–31.

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11. *Dirichlet forms, quantum fields and stochastic quantization* (with Sergio Albeverio), Stochastic analysis, path integration and dynamics (K. D. Elworthy and J. C. Zambrini, eds.), Research Notes in Mathematics, vol. 200, Longman, Harlow, 1989, pp. 1–21.
12. *Dirichlet forms and generalized Schrödinger operators* (with Sergio Albeverio and Johannes F. Brasche), Schrödinger Operators (H. Holden and A. Jensen, eds.), Lecture Notes in Physics, vol. 345, Springer, Berlin, 1989, pp. 1–42.
13. *Classical Dirichlet forms on topological vector spaces: construction of an associated diffusion process* (with Sergio Albeverio), Prob. Th. Rel. Fields **83** (1989), 405–434.
14. *Infinite dimensional diffusions connected with positive generalized white noise functionals* (with Sergio Albeverio), White noise analysis (Takeyuki Hida et al., eds.), World Scientific, Singapore, 1990, pp. 1–21.
15. *New developments in theory and applications of Dirichlet forms* (with Sergio Albeverio), Ascona/Locarno, Switzerland, 4–9 July 1988 (Sergio Albeverio et al., eds.), Stochastic processes, physics and geometry, World Scientific, Singapore, 1990, pp. 27–76.
16. *The Dirichlet problem for quasi-linear partial differential operators with boundary data given by a distribution* (with Boguslav Zegarlinski), Stochastic Processes and their Applications (Sergio Albeverio et al., eds.), Kluwer, 1990, pp. 301–326.
17. *Dirichlet forms and Markov fields: a report on recent developments* (with Sergio Albeverio and Zhi-Ming Ma), Diffusion processes and related problems in Analysis, vol. 1, Birkhäuser, Boston, 1990, pp. 325–347.
18. *Dirichlet forms on topological vector spaces: closability and a Cameron–Martin formula* (with Sergio Albeverio), J. Funct. Anal. **88** (1990), 395–436.
19. *On the contraction property of energy forms on infinite dimensional space* (with Jürgen Potthoff), J. Funct. Anal. **92** (1990), 155–165.
20. *On partial integration in infinite dimensional space and applications to Dirichlet forms* (with Sergio Albeverio and Shigeo Kusuoka), J. London Math. Soc. **42** (1990), 122–136.
21. *Dirichlet forms in terms of white noise analysis I: Construction and QFT examples* (with Sergio Albeverio, Takeyuki Hida, Jürgen Potthoff, and Ludwig Streit), Rev. Math. Phys. **1** (1990), 291–312.
22. *Dirichlet forms in terms of white noise analysis II: Closability and diffusion processes* (with Sergio Albeverio, Takeyuki Hida, Jürgen Potthoff, and Ludwig Streit), Rev. Math. Phys. **1** (1990), 313–323.
23. *Potential theory on non-locally compact space via Dirichlet forms*, Potential Theory (M. Kishi, ed.), W. de Gruyter & Co., Berlin, New York, 1991, Invited Lecture, pp. 107–126.
24. *Decomposition of Dirichlet processes on Hilbert space* (with Tu-Sheng Zhang), Stochastic Analysis (M. T. Barlow and N.H. Bingham, eds.), Cambridge University Press, Cambridge, 1991, pp. 321–332.

25. *Capacities on Wiener space: tightness and invariance* (with Sergio Albeverio, Masatoshi Fukushima, Wolfhard Hansen, and Zhi-Ming Ma), C. R. Acad. Sci. Paris, *Série I* **312** (1991), 931–935.
26. *Stochastic differential equations in infinite dimensions: solutions via Dirichlet forms* (with Sergio Albeverio), Prob. Th. Rel. Fields **89** (1991), 347–386.
27. *Introduction to the theory of (non-symmetric) Dirichlet forms* (with Zhi-Ming Ma), Universitext, Springer, Berlin, 1992, pp. viii+209.
28. *Dirichlet forms on infinite dimensional state space and applications*, Stochastic Analysis and Related Topics (H. Körezlioglu and A. S. Ustumel, eds.), Birkhäuser, Boston, 1992, pp. 131–186.
29. *A Beurling–Deny type structure theorem for Dirichlet forms on general state spaces* (with Sergio Albeverio and Zhi-Ming Ma), Ideas and methods in mathematical analysis, stochastics, and applications (Sergio Albeverio et al., eds.), vol. 1, Cambridge University Press, Cambridge, 1992, In Memory of Raphael Høegh–Krohn (1938–1988), pp. 115–123.
30. *On the parabolic Martin boundary of the Ornstein–Uhlenbeck operator on Wiener space*, Ann. Prob. **20** (1992), 1063–1085.
31. *A note on tightness of capacities associated with Dirichlet forms* (with Terry Lyons), Bull. London Math. Soc. **24** (1992), 181–184.
32. *Non-symmetric Dirichlet forms and Markov processes on general state space* (with Sergio Albeverio and Zhi-Ming Ma), C. R. Acad. Sci. Paris, *Série I* **314** (1992), 77–82.
33. *Regularization of Dirichlet spaces and applications* (with Sergio Albeverio and Zhi-Ming Ma), C. R. Acad. Sci. Paris, *Série I* **314** (1992), 859–864.
34. *Capacités gaussiennes sont portées par des compacts métrisables* (with Vladimir I. Bogachev), C. R. Acad. Sci. Paris, *Série I* **315** (1992), 197–202.
35. *Construction of diffusions on path and loop spaces of compact Riemannian manifolds* (with Bruce K. Driver), C. R. Acad. Sci. Paris, *Série I* **315** (1992), 603–608.
36. *Uniqueness of generalized Schrödinger operators and applications* (with Tu-Sheng Zhang), J. Funct. Anal. **105** (1992), 187–231.
37. *An invariance result for capacities on Wiener space* (with Sergio Albeverio, Masatoshi Fukushima, Wolfhard Hansen, and Zhi-Ming Ma), J. Funct. Anal. **106** (1992), 35–49.
38. *Tightness of general  $C_{1,p}$ -capacities on Banach space* (with Byron Schmuland), J. Funct. Anal. **108** (1992), 1–12.
39. *An approximate criterium of essential self-adjointness of Dirichlet operators* (with Sergio Albeverio and Yuri G. Kondratiev), Pot. Anal. **1** (1992), 307–317.
40. *A remark on the support of cadlag processes* (with Sergio Albeverio and Zhi-Ming Ma), Stochastic Processes. A Festschrift in Honour of G. Kallianpur (S. Cambanis et al., eds.), Springer, Berlin, 1993, pp. 1–5.

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42. *Markov uniqueness for a class of infinite dimensional Dirichlet operators* (with Sergio Albeverio and Tu-Sheng Zhang), Stochastic Processes and Optimal Control (H. J. Engelbert et al., eds.), Stochastic Monographs, vol. 7, Gordon & Breach, 1993, pp. 1–26.
43. *Girsanov transform for symmetric diffusions with infinite dimensional state space* (with Sergio Albeverio and Tu-Sheng Zhang), Ann. Prob. **21** (1993), 961–978.
44. *Construction of a rotational invariant diffusion on the free loop space* (with Sergio Albeverio and Remi Léandre), C. R. Acad. Sci. Paris, Série I **316** (1993), 287–292.
45. *Markov uniqueness and its applications to martingale problems, stochastic differential equations and stochastic quantization* (with Sergio Albeverio and Tu-Sheng Zhang), C. R. Math. Rep. Acad. Sci. Canada **XV** (1993), 1–6.
46. *Quasi-regular Dirichlet forms and Markov processes* (with Sergio Albeverio and Zhi-Ming Ma), J. Funct. Anal. **111** (1993), 118–154.
47. *Local property of Dirichlet forms and diffusions on general state spaces* (with Sergio Albeverio and Zhi-Ming Ma), Math. Ann. **296** (1993), 677–686.
48. *Addendum to [39]* (with Sergio Albeverio and Yuri G. Kondratiev), Pot. Anal. **2** (1993), 195–198.
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50. *Infinite dimensional diffusions, Markov fields, quantum fields, and stochastic quantization* (with Sergio Albeverio and Yuri G. Kondratiev), Stochastic analysis and applications (A. I. Cardoso et al., eds.), Kluwer, Dordrecht, 1994, pp. 1–34.
51. *Hypoellipticity and invariant measures of infinite dimensional diffusions* (with Vladimir I. Bogachev), C. R. Acad. Sci. Paris, Série I **318** (1994), 553–558.
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58. *A remark on coercive forms and associated semigroups* (with Sergio Albeverio, Ru-Zhong Fan, and Wilhelm Stannat), Partial differential operators and mathematical physics, Operator Theory Advances and Applications, vol. 78, Birkhäuser, Basel, 1995, pp. 1–8.
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61. *Markov processes associated with positivity preserving forms* (with Zhi-Ming Ma), Can. J. Math. **47** (1995), 817–840.
62. *Dirichlet operators via stochastic analysis* (with Sergio Albeverio and Yuri G. Kondratiev), J. Funct. Anal. **128** (1995), 102–138.
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64. *Regularity of invariant measures on finite and infinite dimensional spaces and applications* (with Vladimir I. Bogachev), J. Funct. Anal. **133** (1995), 168–223.
65. *Mehler formula and capacities for infinite dimensional Ornstein–Uhlenbeck processes with general linear drift* (with Vladimir I. Bogachev), Osaka J. Math. **32** (1995), 237–274.
66. *Markov processes associated with semi-Dirichlet forms* (with Zhi-Ming Ma and Ludger Overbeck), Osaka J. Math. **32** (1995), 97–119.
67. *Characterization of (non-symmetric) Dirichlet forms associated with Hunt processes* (with Sergio Albeverio and Zhi-Ming Ma), Rand. Op. Stoch. Eq. **3** (1995), 161–179.
68. *Differential geometry of Poisson spaces* (with Sergio Albeverio and Yuri G. Kondratiev), C. R. Acad. Sci. Paris, Série I **323** (1996), 1129–1134.
69. *Canonical Dirichlet operator and distorted Brownian motion on Poisson spaces* (with Sergio Albeverio and Yuri G. Kondratiev), C. R. Acad. Sci. Paris, Série I **323** (1996), 1179–1184.
70. *Regularity of invariant measures: the case of non-constant diffusion part* (with Vladimir I. Bogachev and Nicolai V. Krylov), J. Funct. Anal. **138** (1996), 223–242.

71. *Regularity of invariant measures for a class of perturbed Ornstein–Uhlenbeck operators* (with Vladimir I. Bogachev and Giuseppe Da Prato), *Nonlin. Diff. Eq. Appl.* **3** (1996), 261–268.
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74. *Finite dimensional approximation of diffusion processes on infinite dimensional state spaces* (with Tu-Sheng Zhang), *Stoch. Stoch. Rep.* **57** (1996), 37–55.
75. *Elliptic regularity and essential self-adjointness of Dirichlet operators on  $\mathbb{R}^d$*  (with Vladimir I. Bogachev and Nicolai V. Krylov), *Ann. Scuola Norm. Sup. Pisa Cl. Sci., Serie IV* **XXIV** (1997), no. 3, 451–461.
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93. *Existence of invariant measures for diffusion processes on Banach spaces* (with Tu-Sheng Zhang), Progress in Probability, vol. 45, Birkhäuser, Basel, 1999, pp. 261–265.
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95. *A-priori estimates and existence of Gibbs measures: a simplified proof* (with Sergio Albeverio, Yuri G. Kondratiev, and Tatjana V. Tsikalenko), C. R. Acad. Sci. Paris, Série I **328** (1999), 1049–1054.
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