

BIOGRAPHICAL SKETCH

Bruno Nachtergaele

Address

Department of Mathematics
University of California at Davis
Davis CA 95616-8633

office: (530) 554-2820
fax: (530) 752-6635
e-mail: bxn@math.ucdavis.edu

Professional Preparation

UG Inst.:	University of Leuven	Physics	Licenciaat 1984
G Inst.:	University of Leuven	Theoretical Physics	Ph.D. 1987
P Inst.:	Princeton University	Mathematical Physics	09/01/1991–06/30/1993

Appointments

2007–2010 Department Chair of Mathematics, University of California, Davis.
2000– Professor of Mathematics, University of California, Davis.
1996–2000 Associate Professor of Mathematics, University of California, Davis.
1993–1996 Assistant Professor of Physics, Princeton University.
1991–1993 Instructor, Department of Physics, Princeton University.
1991 Research Associate, Physics Department, K.U. Leuven, Belgium.
1989–1990 Research Associate, Depto de Física, U. de Chile, Santiago de Chile.
1984–1988 Researcher I.I.K.W., Physics Department, K.U. Leuven, Belgium.

Synergistic Activities

1) Graduate Group in Applied Mathematics, UC Davis, member (10/1996–present), chair (07/2001–07/2004). 2) UC Davis Academic Senate Committee on Research, chair (08/1999–08/2001). 3) UC Davis Academic Senate Committee on Planning and Budget, chair (2006–07 and 2008–09). 4) UC Davis Academic Senate, vice-chair (2011–12). 5) The `arXiv`: moderator `math-ph/math.MP` section (05/1998–present), member of Physics Advisory Board (04/2005–present). 6) International Association of Mathematical Physics, member Executive Committee, 01/2006–present; Vice-President 2009–11.

Editorial Activities

1) Journal of Mathematical Physics, Editor, 01/01/2006–present. 2) Reviews in Mathematical Physics, Associate Editor, 01/01/2004–present. 3) Mathematical Physics Electronic Journal, Editorial Board, 03/01/2002–present.

Short Stays

Newton Institute, Cambridge, UK (July 4 – 16, 1993). CNRS Luminy, France (May 15 – August 15, 1995). Erwin Schrödinger Institute, Vienna, Austria (August 26 – September 8, 1995). EPFL, Lausanne (October 4–25, 1998). ETH, Zurich (October 26–31, 1998). CPT, University of Marseille (July 1999). Courant Institute, New York University (14–23 October 2000, 28 March – 6 April 2001, 4–15 September 2001). Department of Mathematics, University of Bologna (June 2–15, 2001). Erwin Schrödinger Institute for Mathematical Physics, Vienna (Fall 2004, Spring 2011). Université de Marseille (April 2005). Institut Mittag-Leffler, Djursholm, Sweden (Fall 2010).

Funding history

1) Fundación Nacional de Desarrollo Científico y Tecnológico, Chile: one year (1990). 2) National Science Foundation: 1996 - present, continuous funding including a Vertical Integration of Graduate Research and Education (VIGRE) training grant, July 2002- June 2007, and a Focused Research Group on Quantum Spin Systems: Theory and Applications in Quantum Computation, July 2008 - June 2011. 3) Department of Education: Graduate Assistance in Areas of National Need (co-PI):, 2000 - 2010.

Honors

International Congress of Mathematicians, Beijing, 2002, invited lecture.

Elected Fellow of the American Association for the Advancement of Science (2007).

Senior Research Fellow, Erwin Schrödinger Institute for Mathematical Physics, Spring 2011.

Thesis Advisor and Postgraduate-Scholar Sponsor

Thesis Advisor: Shannon Starr (U Rochester), Justin Abbott (Northrop Corporation), Li Lei, Nigie Shi, Austin Calder (National Security Agency), Jeremy Clark (U Helsinki), Spyridon Michalakis (Institute for Quantum Information, Caltech), Ram Puri, Hillel Raz (U Cardiff), Katy Marchand, Jaideep Mulherkar (Dhirubhai Ambani Institute of Information and Communication Technology), Stephen Ng (U Rochester), Anna Vershynina (UC Davis).

Postgraduate-Scholar Sponsor: Oscar Bolina (Kaplan-China.), Jean-Bernard Bru (University of the Basque Country), Pierluigi Contucci (U. Bologna), Wolfgang Spitzer (Fern-Universität Hagen), Daniel Ueltschi (U Warwick), Tom Michoel (Freiburg Institute for Advanced Studies), Robert Sims (U Arizona), Yoshiko Ogata (U of Tokyo), Motohisa Fukuda (Institute for Quantum Computing, University of Waterloo), Sven Bachmann (UC Davis).