Curriculum Vitae Santanu Dey

Personal Data

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(1) Current Occupation

As a Wissenschaftlicher Mitarbeiter (Assistant Professor) in Mathematics at EMA Universität, Greifswald.

(2) Educational Background

Degree	Institute /University	Year
PhD	Indian Statistical	Submitted: May 2004
	Institute Bangalore	Awarded: Feb 2005
Master of Science	Indian Institute of	1996-98
(Mathematics)	Technology Bombay	
Bachelor of Science	CHM College,	1993-96
(Mathematics)	University of Mumbai	

(3) Areas of Interest

Operator Algebras, Quantum Probability, Operator Spaces, CP-semigroups

(4) PhD Thesis

Title- Standard dilations of tuples and representations of certain C^* -algebras Indian Statistical Institute. Thesis advisor - Prof B. V. Rajarama Bhat.

(5) Publications

- 1. Standard noncommuting and commuting dilations of commuting tuples- (with B. V. Rajarama Bhat, T. Bhattacharyya), Trans. Amer. Math. Soc. 356 (2004), 1551-1568.
- 2. Standard dilations of q-commuting tuples, preprint 2003
- 3. Minimal Cuntz-Krieger dilations and representations of Cuntz-Krieger algebras-(with B. V. R. Bhat and J. Zacharias), accepted by Proc. Ind. Acad. of Sci.
- 4. Characteristic functions of ergodic tuples- (with R. Gohm), preprint 2005.

(6) Teaching/research experience

- 1. Teaching Assistant for a course Algebra I (Winter Semester 2005) EMA Universität Greifswald.
- 2. JRF/ SRF fellow at ISI Bangalore during my PhD studies. I gave several talks and four lectures to graduate students on for a course on Operator Algebras at ISI Bangalore.
- 3. Research Fellow of German Academic Exchange Service (DAAD) fellowship for one year (+ 4 months) for research in Mathematics at EMA Universität, Greifswald form

June 2004 till September 2005.

(7) Conferences and Workshops

I attended the following:

- 1. Workshop on "Algebraic Number Theory" held at Hyderabad University (central), from 1^{st} to 21^{st} December 1999.
- 2. International conference on "Spectral and Inverse Spectral Problems for Schrodinger Operator" held at Goa, from 14^{th} to 20^{th} December 2000.
- 3. "International workshop on Linear Algebra, Numerical Functional Analysis and Wavelet Analysis" held at Cochin University from 6^{th} to 15^{th} August 2001.
- 4. Workshop on "Advances in Operator Theory and Operator Algebras-II" from 24^{th} December 2001 to 4^{th} January 2002 at Indian Statistical Institute, Bangalore. I gave a talk on "Two Types of Standard Dilations".
- 5. Short School on "Quantum Independent and Increment Processes" from 9^{th} to 22^{nd} March 2003 at Greifswald, Germany. I also visited the Institut für Mathematik und Informatik, EMA Universität, Greifswald, Germany for the next two weeks and gave three talks on "Dilation of Tuples" in the Institute Seminar series.
- 6. "Joint India AMS Meeting" from 17th to 20th December 2003 at Bangalore. I had an article "q-commuting Dilations" in the poster section.
- 7. " 25^{th} QP Conference- Quantum Probability and Related Topics" from 20^{th} to 26^{th} June 2004 at Bedlewo, Poland. I gave a talk on "Minimal Cuntz-Krieger Dilations".
- 8. Workshop on "Quantum Coding" from 7^{th} to 9^{th} September 2004 at EMA Universität. Greifswald.
- 9. " 26^{th} QP Conference- Quantum Probability and Infinite Dimensional Analysis" from 22^{nd} to 24^{th} February 2005 at Levico, Italy.
- 10. Conference on "Operator Algebras and Applications" at National University of Ireland, Cork from 1^{th} to 4^{th} June 2005. I gave a talk on "Characteristic Functions and dilations".
- 11. Fields Institute Summer school in "Operator Algebras" June 7th to 17th June 2005 at the University of Ottawa, Ontario Canada.

(8) Other Academic Details

- 1. I gave a talk on "Arveson's and Popescu's invariants for Hilbert modules" in the Stat-Math Unit seminar series at ISI Bangalore on 10^{th} August 2000.
- 2. I gave several talks on topics related my research area in ISI Bangalore and EMA Universität, Greifswald.
- 3. Knowledge in Computers C programming, Latex and basic knowledge in OS, Html, Database, etc.
- 4. Knowledge of Western Languages: English (fluent), German (good).

(9) Awards and Fellowships

- 1. Junior and Senior Research Fellowship from Indian Statistical Institute from July 1999 to May 2004.
- 2. Ranked top 20 % among the candidates selected for Junior Research Fellowship of CSIR
- 3. International travel support etc from NBHM, Fields Institute and some conference organisers.
- 4. German Academic Exchange Service (DAAD) fellowship for one year (+ 4 months).