

Susama Agarwala

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Education

Johns Hopkins University
Ph.D. in Mathematics 2009 (expected)

Johns Hopkins University
Masters of Science in Mathematics 2006

MIT
Bachelor of Science in Mathematics 2001
Bachelor of Science in Physics

Papers

The Geometry of Renormalization (Ph.D. Thesis, Johns Hopkins University, 2008)

Alternative Values for $\sin(2\beta)$ Measured from Electron/positron Collisions at Babar. (BS Thesis, Massachusetts Institute of Technology, 2001)

“Spins, Parity, Excitation Energies, and Octupole Structure of an Excited Superdeformed Band in ^{194}Hg and Implications for Identical Bands” (with G. Hackman, T. L. Khoo, M. P. Carpenter, T. Lauritsen, A. Lopez-Martens, I. J. Calderin, R. V. F. Janssens, D. Ackermann, I. Ahmad, D. J. Blumenthal, S. M. Fischer, D. Nisius, P. Reiter, J. Young, H. Amro, E. F. Moore, F. Hannachi, A. Korichi, I. Y. Lee, A. O. Macchiavelli, T. Dssing, and T. Nakatsukasa) *Phys. Rev. Lett.* 79, 4100 - 4103 (1997)

“Reply” (to the Comment by R. R. Chasman) (with G. Hackman, T. L. Khoo, M. P. Carpenter, T. Lauritsen, A. Lopez-Martens, I. J. Calderin, R. V. F. Janssens, D. Ackermann, I. Ahmad, D. J. Blumenthal, S. M. Fischer, D. Nisius, P. Reiter, J. Young, H. Amro, E. F. Moore, F. Hannachi, A. Korichi, I. Y. Lee, A. O. Macchiavelli, T. Dssing, and T. Nakatsukasa) *Phys. Rev. Lett.* 80, 4611 - 4611 (1998)

Invited Talks

Differential Geometry on the Renormalization Bundle
Boston University Department of Mathematics October 18, 2007

Hopf Actions
Boston University Department of Mathematics October 17, 2007

Connes Kreimer Hopf algebra - specific example
University of Pennsylvania Department of Mathematics June 15, 2006

Feynman Diagrams, Hopf Algebra and Birkhoff Decomposition
Johns Hopkins University Department of Physics and
Astronomy

December 9, 2005

Conferences and Workshops attended:

Motives, Quantum Field Theory, and Pseudodifferential Operators
Boston University

June 2008

AMS 2008 Fall Northeastern Meeting
Rutgers University

October 2007

The Fifth Annual NCGOA Spring Institute
Vanderbilt University

May 2007

All Day Conference on Quantum Theory and Manifolds
CUNY

December 2006

The Fourth Annual NCGOA Spring Institute
Vanderbilt University

May 2006

Teaching Experience

Instructor

Linear Algebra, Johns Hopkins University, Summer 2008

Calculus I for Engineers, Johns Hopkins University, Summer 2007

Teaching Assistant

Linear Algebra, Johns Hopkins University, Fall 2008

Calculus III, Johns Hopkins University, Spring 2008

Linear Algebra, Johns Hopkins University, Fall 2007

Linear Algebra, Johns Hopkins University, Spring 2007

Calculus II for Biology, Johns Hopkins University, Fall 2006

Differential Equations, Johns Hopkins University, Spring 2005

Calculus III, Johns Hopkins University, Fall 2005

Calculus I for Biology, Johns Hopkins University, Spring 2005

Precalculus, Johns Hopkins University, Fall 2004

Service

Graduate liaison to the department

Association of Women in Mathematics mentor

SCAP tutor (Teaching study skills to undergraduates on academic probation at Johns Hopkins)

Baltimore Community School – Math teacher and volunteer coordinator

References

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Caterina Consani
Professor of Mathematica
Johns Hopkins University
(410) 516-5116
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Dirk Kreimer
Professor
IHÉS and Boston University
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Richard Brown
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