Assane Lo

Department of Mathematics The University of Arizona 617 N. Santa Rita Avenue P.O. Box 210089 Tucson, AZ 85721-0089

Tel: (520) 621-2138 Fax: (520) 621-8322 http://www.math.arizona.edu/~assane assane@math.arizona.edu

- Education \diamond University of Arizona, Tucson, AZ Ph.D. in Mathematics, (expected May 2007)
 - ♦ University of Dakar, Senegal Bachelor of Science in mathematics with minor in physics

Research ACTIVITY

- ♦ Current research in the area of Mathematical Physics and Geometric Analysis. In particular PDE methods in Statistical Mechanics, Euclidean Field Theory and Riemaniann Geometry
- ♦ Publications:
 - · Witten Laplacian Methods for the Decay of Correlations (Preprint) Arxiv math-ph/0611002
 - · Towards a Direct Method for the Analyticity of the Pressure for certain Classical Unbounded Spin Systems (Preprint)Arxiv math-ph/0611004

SKILLS

- ♦ Computing
 - · Matlab, HTML, C and Java-Programming.
- ♦ Languages
 - · Native speaker of French and Wolof Fluent in English Proficient in Arabic

Relevant ♦ Graduate Teaching Associate-University of Arizona (Spring 2005-Present) Professional

EXPERIENCE

- ♦ Graduate Teaching Assistant-University of Arizona (Fall 2002-Spring 2005)
- ⋄ Member of the teaching team-Pathways program-University of Arizona (Summer 2004)
 - ♦ Primary instructor for: Vector Calculus (Math 223, Fall 06), Calculus II (Math 129, Spring 06 and Fall 05), College Algebra (Math 110, Summer 05), Calculus I (Math 124, Spring 05), Element of Calculus (Math 113, Fall 04), College Algebra (Math 110, Summer 04), Element of Calculus (Math 113, Spring 04), College Algebra (Math 110, Fall 03), College Algebra (Math 110, Summer 03), College Algebra (Math 110, Spring 03), College Algebra (Math 110, Fall 02)
 - Primary teaching responsabilities include preparing and presenting all course lectures, writing course exams, and assigning students grades
 - ♦ Super TA for Introduction to mathematical proof (Math 323, Fall 04 and Spring 04): run weekly review sessions
 - ♦ Super TA for the core graduate real analysis course (Math 523A-B, Spring 06 and Fall 05): Lead weekly recitation sessions
 - ♦ Real analysis qualifying exam coach (Math 523A-B, Summer 06): Lead practice problem sessions for the real analysis graduate qualifying examination

Assane Lo

 \diamond Undergraduate research mentor for Mathematical modeling (Math 485, Spring 06) with Dr. J. Lega

HONORS Gorvernment of Senegal's Scholarship-University of Dakar (1994-1998)

Gorvernment of Senegal's Scholarship-Ecole Normal Superieur, Dakar (1999-2000)

Selected Decay of correlations in two-dimensional plane rotors
Talks Mathematical Physics Seminar, Univ.of.Arizona, Spring 04

Correlations in Kac-Like Models in the Convex Case Graduate Student Colloquium, Univ.of.Arizona,

Fall 04

Decay of correlations and Witten Laplacians Part I and II Mathematical Physics Seminar, Univ.of.Arizona, Fall 2005 Witten Laplacian Methods in Statistical Mechanics Part I Analysis and its applications seminar, Univ.of.Arizona, Fall 2006 Witten Laplacian Methods in Statistical Mechanics Part II Mathematical Physics Seminar, Univ.of.Arizona, Fall 2006

Selected Yamabe Memorial Symposium

Confer- University of Minnesota, September 18, 2004

ENCES AND
WORKSHOPS
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Mathematical Association of America

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