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IMPA, Rio de Janeiro, Brazil  
November 03 - 15, 2014

Thematic Program on  
Probability Theory and Rigorous Statistical Mechanics

## 10º Encuentro Regional de Probabilidad y Estadística Matemática - ERPEM 2014

*High Dimensional Phenomena in Probability,  
Statistics and Signal Processing*

We hereby certify that, **Afonso Bandeira**, **Princeton University**, participated in the 10º Encuentro Regional de Probabilidad y Estadística Matemática (ERPEM 2014) / High Dimensional Phenomena in Probability, Statistics and Signal Processing – Thematic Program on Probability Theory and Rigorous Statistical Mechanics, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from November 03 to 15, 2014 and presented the following work: “**Sharp nonasymptotic bounds on the norm of random matrices with independent entries.**”.

Rio de Janeiro, November 15, 2014.

Roberto Imbuzeiro Oliveira  
Organizing Committee

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We hereby certify that, **Alexandre Belloni**, **Duke University**, participated in the 10º Encuentro Regional de Probabilidad y Estadística Matemática (ERPEM 2014) / High Dimensional Phenomena in Probability, Statistics and Signal Processing – Thematic Program on Probability Theory and Rigorous Statistical Mechanics, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from November 03 to 15, 2014 and presented the following work: “**High Dimensional Estimation: from foundations to Econometric models**”.

Rio de Janeiro, November 15, 2014.

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We hereby certify that, **Antonio Galves, Instituto de Matemática e Estatística**, participated in the 10<sup>o</sup> Encuentro Regional de Probabilidad y Estadística Matemática (ERPEM 2014) / High Dimensional Phenomena in Probability, Statistics and Signal Processing – Thematic Program on Probability Theory and Rigorous Statistical Mechanics, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from November 03 to 15, 2014 and presented the following work: “**Retrieving a hidden context tree model from EEG signals**”.

Rio de Janeiro, November 15, 2014.

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We hereby certify that, **Bernardo Nunes Borges de Lima**, **Universidade Federal de Minas Gerais**, participated in the 10<sup>o</sup> Encuentro Regional de Probabilidad y Estadística Matemática (ERPEM 2014) / High Dimensional Phenomena in Probability, Statistics and Signal Processing – Thematic Program on Probability Theory and Rigorous Statistical Mechanics, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from November 03 to 15, 2014 and presented the following work: **“Embedding binary sequences into Bernoulli site percolation on  $Z^3$ ”**.

Rio de Janeiro, November 15, 2014.

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We hereby certify that, **Emile Richard, Stanford University**, participated in the 10º Encuentro Regional de Probabilidad y Estadística Matemática (ERPEM 2014) / High Dimensional Phenomena in Probability, Statistics and Signal Processing – Thematic Program on Probability Theory and Rigorous Statistical Mechanics, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from November 03 to 15, 2014 and presented the following work: “**Some statistical results on structured array factorization problems.**”.

Rio de Janeiro, November 15, 2014.

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We hereby certify that, **Fábio Júlio da Silva Valentim**, **Universidade Federal do Espírito Santo**, participated in the 10<sup>o</sup> Encuentro Regional de Probabilidad y Estadística Matemática (ERPEM 2014) / High Dimensional Phenomena in Probability, Statistics and Signal Processing – Thematic Program on Probability Theory and Rigorous Statistical Mechanics, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from November 03 to 15, 2014 and presented the following work:  
**“Hydrodynamic limit for fast diffusion equation”**.

Rio de Janeiro, November 15, 2014.

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We hereby certify that, **Holger Rauhut**, **Rhine-Westphalian Technical Highschool Aachen**, participated in the 10<sup>o</sup> Encuentro Regional de Probabilidad y Estadística Matemática (ERPEM 2014) / High Dimensional Phenomena in Probability, Statistics and Signal Processing – Thematic Program on Probability Theory and Rigorous Statistical Mechanics, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from November 03 to 15, 2014 and presented the following work: **“Compressive Sensing with Structured Random Matrices.”**.

Rio de Janeiro, November 15, 2014.

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We hereby certify that, **Joel Tropp, California Institute of Technology**, participated in the 10<sup>o</sup> Encuentro Regional de Probabilidad y Estadística Matemática (ERPEM 2014) / High Dimensional Phenomena in Probability, Statistics and Signal Processing – Thematic Program on Probability Theory and Rigorous Statistical Mechanics, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from November 03 to 15, 2014 and presented the following work: “**Phase transitions in convex optimization problems with random data**”.

Rio de Janeiro, November 15, 2014.

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We hereby certify that, **Ricardo Misturini**, **Pontifícia Universidade Católica do Rio de Janeiro**, participated in the 10<sup>o</sup> Encuentro Regional de Probabilidad y Estadística Matemática (ERPEM 2014) / High Dimensional Phenomena in Probability, Statistics and Signal Processing – Thematic Program on Probability Theory and Rigorous Statistical Mechanics, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from November 03 to 15, 2014 and presented the following work:  
**“Metastability of reversible random walks in potential fields”.**

Rio de Janeiro, November 15, 2014.

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We hereby certify that, **Roberto Imbuzeiro Moraes Felinto de Oliveira**, Instituto Nacional de Matemática Pura e Aplicada, participated in the 10º Encuentro Regional de Probabilidad y Estadística Matemática (ERPEM 2014) / High Dimensional Phenomena in Probability, Statistics and Signal Processing – Thematic Program on Probability Theory and Rigorous Statistical Mechanics, held at Instituto Nacional de Matemática Pura e Aplicada – IMPA, Rio de Janeiro, from November 03 to 15, 2014 and presented the following work: “**The lower tail of random quadratic forms**”.

Rio de Janeiro, November 15, 2014.

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