

Kajal Das

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About Me

- *Citizenship*: Indian
- *Description*: I am a third year PhD student in École Normale Supérieure de Lyon, France. My supervisor is Romain Tessera from Université Paris-Sud 11. I am currently visiting the Department of Mathematics of Paris 11.

Education

- **École Normale Supérieure de Lyon** Lyon, France
PhD *2013-2016*
 - Supervisor: Romain Tessera, Chargé de Recherches(CNRS),
Université Paris-Sud 11
- **École Normale Supérieure de Lyon** Lyon, France
Master 2 (Research) *2012-2013*
 - Qualified with 14.6 (out of 20)
 - Thesis title : On Property (T) and Haagerup Property
 - Supervisor : Romain Tessera
- **The Institute of Mathematical Sciences** Chennai, India
M. Sc. Mathematics and Research Fellow *2009 - 2012*
 - M.Sc. Qualified with 90% approximately
 - M.Sc. thesis title: Bipartite Graph Planar Algebra
 - Supervisor : Professor V. S. Sunder
- **Ramakrishna Mission Vidyamandira, University of Calcutta** West Bengal, India
B.Sc. Mathematics *2006 - 2009*
 - Major : Mathematics
 - Graduated with Honours and First Class

Research Interest

- Measured Group Theory
- Geometric Group Theory
- Metric Geometry

Preprints/Publications

- From the geometry of box spaces to the geometry and the measured couplings of groups, K. Das. Preprint 2015. [arXiv link](#)
- Integrable measure equivalence and the central extension of surface groups, K. Das and R. Tessera (2014). To appear in *Groups, Geometry, and Dynamics*. [arXiv link](#)

Fellowships, Awards and Achievements

- ENS Lyon PhD Scholarship (offered by École Doctorale INFOMATHS, Lyon (CNRS)), 2013-2016
- ENS Lyon Master 2 Scholarship (offered by Laboratoire d'Excellence MILYON), 2012-2013
- ISc Integrated PhD Scholarship (offered by Department of Atomic Energy), 2009-2012
- NBHM Postgraduate Scholarship in Mathematics, 2009-2011 (forfeited)
- Second in Joint Admission Test For M.Sc. 2009 (M.Sc. Admission Test for IITs)

Talks

Past Talks

* *On my works:*

- I. Title: Comparaisons et interactions entre quasi-isométries et équivalence mesurées des groupes.
(invited talk)
Paroles aux jeunes chercheurs en groupes et géométries
Université de Nice - Sophia Antipolis, 25-27 Novembre 2015
- II. Title: Quasi-isometry and L^p -measure equivalence for finitely generated discrete groups.
(contributed talk)
Geometric and Probabilistic Methods in Group Theory and Dynamical Systems
Texas A & M, College Station, Texas, U.S.
November 9, 2015
- III. Title: Integrable measure equivalence and the central extension of surface groups.
Vivekananda University, Belur, India
September 9, 2014

IV. Title: Integrable measure equivalence and the central extension of surface groups.
Indian Statistical Institute, Kolkata, India
September 16, 2014

* *Survey lectures:*

- I Title: Harmonic analysis, cohomology, and the large-scale geometry of amenable groups.
Workshop by ANR GAMME, Nouan le Fuzelier, France
24-27 February, 2015
- II. Title: A survey on measured group theory.
Indian Statistical Institute, Kolkata, India
September 15, 2014
- III. Title: μ -boundaries, maximality of μ -boundaries and geometric criteria of boundary maximality.
Groupe de travail "Marches aléatoires dans les groupes"
Université Paris Sud 11, France
November 5, 2013
- IV. Title: On Relative Property(T) and Haagerup Property.
Master 2 thesis defense, ENS de Lyon, France
September 5, 2013
- V. Title: Values of Quadratic Forms at Primitive Integral Points.
Graduate Student Seminar, ENS de Lyon, France
March 11, 2013
- VI. Title: Classification of Lie groups with Haagerup property.
Rencontre d'analyse fonctionnelle Besançon-Neuchâtel, Neuchâtel, Switzerland
June 25, 2012
- VII. Title: Bipartite Graph Planar Algebra.
Graduate Student Seminar, Institute of Mathematical Sciences
Chennai, India, 2011

Workshops, Schools and Conferences attended

- Geometric and Probabilistic Methods in Group Theory and Dynamical Systems
Texas A & M, College Station, Texas, U.S.
9-12 November, 2015
- Summer School : Probability on graphs and groups
CIB, EPFL, Lausanne, Switzerland
3-7 August, 2015
- Growth, Symbolic Dynamics and Combinatorics of Words in Groups
ENS Paris, France, 1-5 June, 2015
- Borel Seminar "High-Dimensional Expanders 2015"
Organized by Swiss Doctoral Program ETHZ-ITS, Les Diablerets, Switzerland
8-13 March, 2015
- Generalized Cohomology
Organized by ERC and Ben-Gurion university, Sde Boker, Israel
8-12 February, 2015

- Young Geometric Group Theory IV
Spa, Belgium, 11-17 January, 2015
- Expanders Everywhere!
Université de Neuchâtel, Neuchâtel, Switzerland
1-5 December, 2014
- Boundaries of groups and L_p -cohomology
Université de Lille 1, France
15-17 October, 2014
- Geometric, dynamical, and combinatorial aspects of infinite groups
Université de Rennes 1, France
16-18 June, 2014
- Discrete group actions in geometry and topology
Borel Seminar 2014, Les Diablerets, Switzerland
30 June - 4 July, 2014
- GEAR Junior Retreat
University of Michigan at Ann Arbor, USA
23 May - 1 June, 2014
- Random walks and asymptotic geometry of groups,
CIRM Luminy and IHP Paris, France
6 January - 4 April, 2014
- Von Neumann Algebras and Measurable Group Theory,
KU Leuven, Belgium, 1-4 July, 2013
- Summer School on ‘Rigidity and Group Actions’,
Institut de Mathématiques de Jussieu,
Paris, France, 17-28 June, 2013
- Coarse Geometry of Infinite Groups,
University de Lille, France, 18-22 June, 2012
- A short course on ‘The dynamics of vector fields in dimension 3’ by Prof. Etienne Ghys,
TIFR, Mumbai, India, 9-14 April, 2012
- ATM Workshop on Operator Algebras,
IMSc, Chennai, India, January 30 - February 11, 2012
- The Functional Analysis of Quantum Information Theory,
IMSc, Chennai, India, December 26, 2011 - January 6, 2012
- International Congress of Mathematicians (ICM),
Hyderabad, India, 19-27 August 2010
- ICM Satellite Conference on Operator Algebras,
IMSc, Chennai, India, 9-13 August, 2010
- Advanced Instructional School on Schemes and Cohomology,
KSOM, Kozhikode, India, 16-28 June, 2010

References

- Romain Tessera
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