Antoine CARADOT

University of Lyon, Camille Jordan Institute (ICJ), France

Personal information

Date and place of birth: 23-03-1988, Lyon, France.

Nationality: French, Swiss.

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Education

"Agrégation" national exam. Rank : 7.

Ph.D. in Mathematics, University of Lyon, 2017.
Title: Singularity and Lie Theory.
Supervisor: Kenji IOHARA.
Completion and defense of dissertation on June, 14th 2017.

Master of Science in Mathematics, University of Lyon, 2013.

Master of Science in Physics (fluid dynamics), University of Lyon, 2011.

Engineer School "Ecole des Mines de Nancy", Nancy, 2011.

Classe préparatoire PCSI-PC*, Lycée du Parc, Lyon, 2008.

Research interests

Lie algebras representations, foldings of root systems, quivers representations, deformations and resolutions of simple singularities, nilpotent orbits, symplectic reduction, orbit method.

Publications

Caradot A. - Root Systems and Quotients of Deformations of Simple Singularities. 2018. Arxiv preprint.

Caradot A. - Inhomogeneous Kleinian singularities and quivers. Banach Center Publications 113 (2017), 87-94.

Caradot A. - Singularity and Lie Theory. Ph.D Thesis. 2017. University of Lyon.

Grant

Japan Society for the Promotion of Science (JSPS) Summer Program 2015.

Teaching experience

2016-2017:
- Exercise sessions, Algebra I, 1st semester, B.Sc first year, University of Lyon.
- Exercise sessions, Algebra II, 2nd semester, B.Sc first year, University of Lyon.

2015-2016:
- Exercise sessions, Fundamental algebra, B.Sc first year, University of Lyon.
- Exercise sessions, Linear algebra, B.Sc first year, University of Lyon.

2014-2015:
- Exercise sessions, Algebra and Geometry, B.Sc first year, University of Lyon.
- Exercise sessions, Linear algebra, B.Sc first year, University of Lyon.
- Oral examinations in maths, classes préparatoires first year, University of Lyon.

Other employment

Teaching Assistant (A.T.E.R) *2016-2017*
Conduct exercise sessions in algebra for undergraduates, elaborate exam subjects and grade papers.

JSPS Fellow *Summer 2015*
Two months research stay at Kobe University, Japan, under the supervision of Pr. Masa-Hiko Saito, attended and participated in the Graduate School of Science seminar.

Language proficiency

French: mother language.

English: fluent.

German: advanced.

Japanese: intermediate.

Conferences and Workshops

- Algebra Seminar of the ICJ, Lyon.
- Study group " Cluster algebras and applications ", Lyon.
- Study group " D-modules ", Lyon.
- Study group " Vector bundles, Buildings and Stability", Lyon.
- Sophus Lie Seminar, 27-29/06/13, ICJ, Lyon.
- " Algebra, Geometry, Logic " day, 16/01/14, Saint-Etienne.
- Workshop " Cohomological and geometric methods in representation theory",

20-22/01/14, Élie Cartan Institute (IECL), Nancy.

- Half semester " Algebraic Groups and Representations ", 02/06/14 to 11/07/14, Lyon.
- Kobe-Lyon Summer School on Quivers, 21-31/07/15, Kobe, Japan.
- Conference " Geometry of algebraic varieties ", 06-09/10/15, Humboldt University, Berlin, Germany.
- Opening days of the ANR GéoLie, 11-13/01/2016, Saint-Etienne.
- Workshop on Slodowy slices, 13-14/01/2016, Saint-Etienne.
- " Algebra, Geometry, Logic " day, 21/01/16, Saint-Etienne.
- Conference "Non-commutative crepant resolution, Urlich module and generalization of the McKay correspondence ", 13-17/06/16, RIMS, Kyoto, Japan.
- Sophus Lie Seminar, 25/09/16 to 01/10/16, Będlewo, Poland.
- Conference " Arc Schemes and Singularities", 21-25/10/16, Rennes.
- Workshop "Modular Forms and Characters of Representations", 16-17/05/17, Lille.
- Summer School "Current Topics in the Theory of Algebraic Groups ", 03-07/07/17, Dijon.
- Conference "Lie Theory, Cohomology, and Geometry in Wildrose Country", 21-25/07/17, Edmonton, Canada.
- Conference "Transformation Groups 2017", 14-18/12/17, Moscow, Russia.
- Winter school "Riemann-Hilbert correspondences", 28/01/18 to 03/02/18, Padua, Italy.
- Conference "Geometry and Representation Theory of Algebraic Groups", 05-09/03/18, Bad Honnef, Germany.
- Ottawa-Lyon-Sao Paulo Workshop on Representation Theory, 03-07/07/18, Ottawa, Canada.

Talks and Posters

- Talk in the doctoral seminar of the Camille Jordan Institute.
- Poster for the JSPS Summer Program, 12/06/15, Sokendai, Japan.
- Talk during the Kobe-Lyon Summer School on Quivers, 27/07/15, Kobe, Japan.
- Talk during the opening days of the ANR GéoLie, 11-13/01/2016, Saint-Etienne, France.
- Poster for the conference "Non-commutative crepant resolution, Ulrich module and generalization of the McKay correspondence", 13-17/06/16, RIMS, Kyoto, Japan.
- Poster for the 50th Sophus Lie Seminar, 25/09/16 to 01/10/16, Będlewo, Poland.
- Talk during the Dijon - Basel Seminar, 11-12/09/17, Dijon, France.
- Talk during the 7th Swiss-French workshop in algebraic geometry, 8-12/01/18, Charmey, Switzerland.