Benoît Dejoncheere

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✉ *benoit.dejoncheere@gmail.com*
Born on August 21st, 1993

Professionnal situation

2016–2017 **Research and teaching assistant (demi-ATER)**, *ICJ*, Lyon.

2013–2016 **PhD student** under the supervision of Olivier Mathieu and Alexis Tchoudjem, *ICJ*, Lyon.

Education

2013–2016 **PhD in Mathematics** under the supervision of Olivier Mathieu and Alexis Tchoudjem, *ICJ*, Lyon,
Title : Study of global differential operators on some projective algebraic varieties.
Defense : on December 14th, 2016, in front of
○ Michel BRION (Grenoble, president)
○ Stéphanie CUPIT-FOUTOU (Bochum, examiner)
○ Olivier MATHIEU (Lyon, supervisor)
○ Lucy MOSER-JAUSLIN (Dijon, examiner)
○ Nicolas PERRIN (Versailles, examiner and referee)
○ Nicolas RESSAYRE (Lyon, examiner)
○ Michel VAN DEN BERGH (Hasselt, referee)

apr.-july 2013 **Master's Internship** under the supervision of Alexis Tchoudjem, *ICJ*, Lyon.

2013 **Master Degree**, *UCBL*, Lyon.

Publications and prepublications

2017 **Unstable points for torus actions on flag varieties**, *arXiv:1709.05942*.

2016 **On differential operators on complete symmetric varieties of type A_1 and A_2**, *arXiv:1609.06998*, (submitted).

Talks

sep. 2017 **Differential operators on complete symmetric spaces of small rank**, *"Symmetric Spaces and their Generalisations III" Conference*, Levico Terme.

sep. 2017 **Unstable points for torus actions on flag varieties**, *Dijon-Basel Seminar*, IMB, Dijon.

may 2017 **Rings of differential operators on some wonderful varieties of small rank**, *Transformation Groups Seminar*, RUB, Bochum.

mar. 2017 **Differential operators on some wonderful varieties of small rank**, *Groups, Representations and Geometry Seminar*, IMJ-PRG, Paris.

feb. 2017 **Differential operators on some wonderful varieties of small rank**, *Annual GDR TLAG Conference*, LAMFA, Amiens.

jan. 2016 **A short overview of different quotients in algebraic geometry**, *Young researchers Seminar*, LMR, Reims.

jan. 2016 **Wonderful compactifications and D-modules**, *ANR GeoLie Inaugural Conference*, ICJ, St-Etienne.

apr. 2015 **Global differential algebraic operators on the moduli space of complete quadrics**, *PhD students Seminar*, ICJ, Lyon.

dec. 2014 **Global differential algebraic operators on flag varieties**, *Young researchers Seminar*, LMR, Reims.

Seminars, Conferences

sep. 2017 **"Symmetric Spaces and their Generalisations III" Conference**, *Levico Terme*.

sep. 2017 **GDR TLAG Conference**, *UBP*, Clermont-Ferrand.

sep. 2017 **Dijon-Basel Seminar**, *IMB*, Dijon.

aug. 2017 **"Lie Theory, Cohomology, and Geometry in Wildrose Country" Conference**, *UA*, Edmonton.

july 2017 **"Current Topics in the Theory of Algebraic Groups" Summer school**, *IMB*, Dijon.

june 2017 **"Algebra, Meeting Grenoble/Lyon/Saint-Étienne"**, *ICJ*, Lyon.

may 2017 **"Representation Theory at the Crossroads of Modern Mathematics" Conference**, *LMR*, Reims.

may 2017 **Modular Forms and Representations Characters Days**, *LPP*, Lille.

feb. 2017 **Annual GDR TLAG Conference**, *LAMFA*, Amiens.

july 2016 **"Combinatorial Algebraic Geometry" Summer school**, *Fields Institute*, Toronto.

may 2016 **"Inter'Actions 2016"**, *UMPA*, Lyon.

mar. 2016 **"Algebraic groups, geometry and representations" Conference**, *LMNO*, Caen.

jan. 2016 **ANR GeoLie Inaugural Conference**, *ICJ*, St-Etienne.

june 2015 **"Generalizations of Symmetric Spaces" Workshop**, *Technion*, Haïfa.

jan. 2015 **"Lie Theory and Representation Theory" Winter school**, *CRM*, Pise.

june-july 2014 **"Algebraic Groups and Representations" Half-trimester**, *ICJ*, Lyon.

may 2014 **"Inter'Actions 2014"**, *ICJ*, Lyon.

jan. 2014 **Annual GDR TLAG Conference**, *IRMA*, Strasbourg.

june 2013 **Sophus Lie Seminar**, *ICJ*, Lyon.

may 2013 **Meeting Lyon - São Paulo "Algebra, Groups and Logic"**, *ICJ*, Lyon.

feb. 2012 **Sophus Lie Seminar**, *LMR*, Reims.

Teaching

spr. 2017 **Exercise sessions**, Mathematics 2, *36h*.

fall 2016 **Exercise sessions**, Fundamentals of Mathematics I, *64h*.

fall 2015 **Oral exams**, Mathematics, "Cursus prépa", *24h*.

fall 2015 **Exercise sessions**, Algebra I, "Cursus prépa", *42h*.

spr. 2015 **Exercise sessions**, Matrix Calculus and Applied Linear Algebra II, *36h*.

spr. 2015 **Exercise sessions**, Mathematics Basic Techniques, *24h*.

Others

Keywords Wonderful varieties, Differential operators, Flag varieties, GIT quotients, Local cohomology

Languages French (native language), English (fluent), German (read)