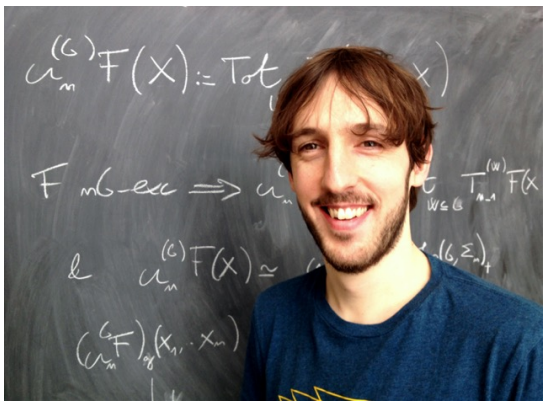
Emanuele Dotto, CV

Hausdorff Center for Mathematics
University of Bonn
Endenicher Alle 60
Bonn, D-53115

Email: dotto@math.uni-bonn.de
Homepage: `math.uni-bonn.de/people/dotto/`



Personal

Born on November 10th, 1985

Swiss Citizen

Languages

Italian, French, English

Research

Algebraic topology: real algebraic K-theory, topological Hochschild/cyclic homology, trace maps, equivariant homotopy theory, calculus of functors.

Education

PhD Mathematics, University of Copenhagen, December 14th 2012

Adviser: Ib Madsen

Thesis: Stable Real K-theory and Real Topological Hochschild Homology.

MA Mathematics, EPFL/NTNU, 2009

Advisers: Kathryn Hess-Bellwald, Andrew Stacey

MA Thesis: A Survey of Index Theory and a Calculation of the Truncated Equivariant Witten Genus.

BA Mathematics, EPFL, 2007.

Employment

Assistant Professor, University of Warwick, September 2019-Present

Postdoc, Hausdorff Center for Mathematics Bonn, August 2016-August 2019.

C.L.E. Moore Instructor, MIT, September 2013-June 2016.

Postdoc, University of Copenhagen, February-August 2013.

Grants

LMS Scheme 3 grant for the Cambridge-Oxford-Warwick homotopy and manifolds seminar.

3-years funding from the DFG under the SPP 1786 Priority Program, August 2018-July 2021.

Selected Presentations

Operads, Calculus and Homotopy theory methods in Topology, Lausanne, December 2019.

Oxford topology seminar, November 2019.

Algebraic Geometry and Homotopy Theory, Nijmegen, October 2019.

Stockholm topology seminar, April 2019.

Equivariant homotopy theory and K-theory, Berlin, June 2018.

Topology meeting, University of Oslo, May 2018.

K-theory, A1-homotopy and quadratic forms, University of Warwick, February 2018.

K-theory and related Fields, Hausdorff Institute for Mathematics, June 2017.

Stockholm Topology Seminar, January 2017.

Higher geometric structures along the Lower Rhine, MPIM Bonn, December 2016.

EPFL Topology Seminar, November 2016.

Alpine Algebraic and Applied Topology Conference, Saas-Almagell, Switzerland, August 2016.

Massachusetts Institute of Technology Topology Seminar, April 2016.

Münster Leray Seminar, January 2016.

Massachusetts Institute of Technology Topology Seminar, May 2015.

Johns Hopkins Topology Seminar, April 2015.

UVA Topology Seminar, February 2015.

Ohio State K-theory and motivic homotopy theory seminar, November 2014.

Stanford Topology Seminar, November 2014.

Midwest Topology Seminar, October 2014.

Dubrovnik conference on Manifolds, K-theory and Related Topics, June 2014.

University of Chicago Topology Seminar, April 2014.

Northwestern Topology Seminar, March 2014.

Massachusetts Institute of Technology Topology Seminar, February 2014.

Teaching

Research Students

Julius Frank, Master Thesis, Bonn, 2020
Hermitian Mackey functors and ring-spectra with anti-involution.

Robis Stoll, Master Thesis, Bonn, 2019
A version of Goodwillie calculus for non-cubes.

Fernando Abellán-García, Master Thesis, Bonn, 2018
On equivariant versions of the associative operad.

Zhulin Li, Undergraduate Research Opportunities Program, MIT, 2015
Box product of Mackey functors in terms of modules, *arXiv:1509.07051*.

Yuzhou Gu, Undergraduate Research Opportunities Program, MIT, 2015-2016
Generalized equivariant model structures on Cat^1, To appear in the Journal of Homotopy and Related Structures, *arXiv:1605.07983*.

Activities

Organiser LMS online lecture series on *Exotic Spheres*, 2020.

Organiser of the *29. NRW topology meeting*, University of Bonn, 2018.

Organiser workshop *Hermitian K-theory and trace methods*, Hausdorff Institute for Mathematics, 2016.

Math en Jeans: research projects with school children at *Prins Henrik skole*, Copenhagen, 2012.

Organiser conference *Young Topologists Meeting 2010*, University of Copenhagen.

Teaching Assistant for *Cours Euler*: mathematics high school program for extraordinarily talented children, EPFL, 2009.