

Tudor Pădurariu

Simonyi Hall, Room 208

School of Mathematics

Institute for Advanced Studies

1 Einstein Drive

Princeton, NJ 08540

<https://www.math.ias.edu/~tpad/>

tpad@ias.edu

Employment

Ritt Assistant Professor, Columbia University, starting Fall 2021

Member, Institute for Advanced Studies, 2020–2021

Education

Massachusetts Institute of Technology, Ph.D. in Mathematics, 2015–2020

Advisor: Davesh Maulik

University of California, Los Angeles, B.Sc., M.A. in Mathematics, 2011–2015

Advisor: Burt Totaro

Awards

UCLA Math Undergraduate Merit Scholarship, 2011–2015

Articles

Bryan-Steinberg pairs and a non-Calabi-Yau wall-crossing,

<http://math.mit.edu/~tpad/WCBS.pdf>.

K-theoretic Hall algebras for quivers with potential,

<http://arxiv.org/abs/1911.05526>.

Deformed dimensional reduction,

joint with B. Davison,

<http://math.mit.edu/~tpad/DDR.pdf>.

Groups of order p^3 are mixed Tate,

<http://arxiv.org/pdf/1503.04235.pdf>.

Ergodicity and conservativity of products of infinite transformation and their inverses,

joint with J. Clancy, R. Friedberg, I. Kasmalkar, I. Loh, C. E. Silva, S. Vasudevan

<http://arxiv.org/pdf/1408.2445.pdf>

Colloq. Math. 143 (2016), no. 2, 271–291.

On v -positive type transformation in infinite measure,

joint with C. E. Silva, E. Zachos

<http://arxiv.org/pdf/1309.6257.pdf>

Colloq. Math. 140 (2015), no. 2, 149–170.

On rationally ergodic and rationally weakly mixing rank one transformations,

joint with I. Dai, X. Garcia, C. E. Silva

<http://arxiv.org/pdf/1208.3161.pdf>
 Ergodic Theory Dynam. Systems 35 (2015), no. 4, 1141–1164.

Invited Talks

Princeton University, Algebraic Geometry Seminar (on Zoom)	October 2020
Institute of Advanced Studies, Postdoctoral Short Talks	September 2020
CORONAGS seminar (on Zoom)	July 2020
University of Bonn and Perimeter Institute, Conference in Geometric Representation Theory (on Zoom)	June 2020
University of Bonn, Algebraic Geometry Seminar (on Zoom)	May 2020
University of California, Berkeley, String-Math Seminar	March 2020
University of Toronto, Geometric Representation Theory seminar	March 2020
Poincaré Institute, Paris	February 2020
Columbia University, Algebraic Geometry Seminar	November 2019
MIT, Geometric Representation Seminar	September 2019
University of Edinburgh, Algebra and Geometry Seminar	January 2019
Northeastern University, Pick my brain seminar	November 2018

Teaching

Instructor for Review of Single and Multivariable Calculus	Summer 2018 and 2019
Recitation leader for Multivariable Calculus	Fall 2018
Recitation leader for Differential Equations	Spring 2018
Recitation leader for single variable calculus	Fall 2017
Teaching assistant/ Grader for Number Theory	Spring 2019
Teaching assistant/ Grader for Algebraic Geometry	Spring 2017
Teaching assistant/ Grader for Linear Algebra	Fall 2016

Miscellaneous

Referee experience

Mentor for the Directed Reading Program for undergraduate students in January 2018 (analytic number theory) and January 2020 (probabilistic method in combinatorics)

Organizer of the Deligne Seminar for graduate students interested in arithmetic geometry Fall 2016 and Spring 2017

Instructor at the UCLA Math Circle between September 2012 and June 2015