MARCO RAMPAZZO

PERSONAL INFORMATION

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ACADEMIC ACTIVITY

Current position 2021 – now
Postdoc, University of Bologna

Previous position 2016 – 2020
PhD student in mathematics, University of Stavanger
Supervisor: Michał Kapustka
Thesis: "Equivalences of Calabi–Yau mainfolds and roofs of projective bundles"

Guest positions / Thematic programs Spring 2019
Guest of the Paul Sabatier University, Toulouse
Funding: Norwegian Research Council mobility grant
Host: Laurent Manivel

EDUCATION

Master's degree in Physics 2016
University of Milan

Bachelor's degree in Physics 2013
University of Milan

RESEARCH INTERESTS

Algebraic varieties: Calabi–Yau varieties, homogeneous varieties and homogeneous vector bundles, Fano varieties with multiple projective bundle structures

Derived categories of coherent sheaves: semiorthogonal decompositions, mutations of exceptional collections, derived equivalence, Fourier–Mukai transform

Birational geometry: roofs of projective bundles, K-equivalence, DK-conjecture

Gauged linear sigma models: multiple geometric phases, phase transitions, variation of GIT

TEACHING

Linear Algebra, exercise classes	fall 2021
Discrete Mathematics, exercise classes	fall 2020
Linear Algebra, exercise classes	fall 2020
Probability and Statistics, exercise classes	spring 2020
Linear algebra, teaching and exercise classes	fall 2019
Linear algebra, exercise classes	fall 2018
Linear algebra, exercise classes	fall 2017

CONFERENCE TALKS

Workshop "Algebraic Geometry days". *Mukai roofs and K3 surfaces*	Stavanger, 25–26 November 2019
Conference "Nasjonalt Algebramøte 2019". *Derived equivalence of Mukai roofs: the case of K3 surfaces of degree 12*	Oslo, 7–8 November 2019
Seminar of Algebra of the Jagellonian University. *Computing Hodge numbers of Calabi–Yau varieties in Grassmannians*	Kraków, 11 April 2019
Conference "Nasjonalt Matematikermøte 2018". *A GLSM description for a pair of non birational Calabi–Yau threefolds*	Bergen, 12 September 2018
Workshop "Motives of Calabi–Yau manifolds". *A gauged linear sigma model description for a pair of non birational Calabi–Yau threefolds*	Kraków, 19–21 May 2018

SEMINARS ORGANIZED

Seminar: *Bridgeland stability conditions* — Bologna – Chemnitz – Nancy, fall 2021.
Organizer together with Simone Billi, Francesco Denisi, Franco Giovenzana, Annalisa Grossi and Mihai–Cosmin Pavel.
Homepage: https://marcorampazzo.github.io/bridgeland

Seminar: *The mathematics of gauged linear sigma models* — Toulouse, spring 2019.
Organizer and speaker

PUBLICATIONS AND PREPRINTS

1. *PhD Thesis:* Marco Rampazzo. *Equivalences between Calabi–Yau manifolds and roofs of projective bundles*. (2021). https://doi.org/10.31265/usps.78
   Available online at `https://ebooks.uis.no/index.php/USPS/catalog/book/78`
2. *Publication:* Michał Kapustka, Marco Rampazzo. *Mukai duality and roofs of projective bundles*. (2021).
   Accepted by the Bulletin of the London Mathematical Society.
3. *Publication:* Michał Kapustka, Marco Rampazzo. *Torelli problem for Calabi-Yau threefolds with GLSM description*. Communications in Number Theory and Physics, Volume 13, No. 4 (2019).
4. *Preprint:* Enrico Fatighenti, Michał Kapustka, Giovanni Mongardi, Marco Rampazzo. *The generalized roof $F(1,2,n)$: Hodge structures and derived categories*. (2021). Available at https://arxiv.org/abs/2110.10475
5. *Preprint:* Marco Rampazzo. *Calabi–Yau fibrations, simple K-equivalence and mutations*. (2020). Available at https://arxiv.org/abs/2006.06330