

Federico Moretti

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Personal Information

Date of Birth: 27.08.1996

Place of Birth: Ferrara, Italy

Education

Expected Spring 2024

Humboldt Universität zu Berlin

Advisor: Gavril Farkas

Mathematics

Ph.D. Candidate

07/2021

Scuola Normale Superiore di Pisa, grade: 100/100 cum laude

Internal Advisor: Angelo Vistoli

Mathematics
Diploma Di Licenza

10/2020

Università di Pisa, grade: 110/110 cum laude.

Advisor: Rita Pardini

Mathematics

M.S.

07/2018

Università di Pavia, grade: 110/110 cum laude.

Advisor: Gian Pietro Pirola

Mathematics

B.S.

Visits

Stony Brook University, Supervisor: Robert Lazarsfeld

09.2023-11.2023.

Research Interests

- Brill-Noether theory
- curves, abelian varieties, $K3$ surfaces
- Measures of irrationality and measures of association

Preprints

- F. Moretti (2022). Brill-Noether theory and Green's conjecture for general curves on simple abelian surfaces. arXiv:2205.15977
- F. Moretti (2023). The polarized degree of irrationality of $K3$ surfaces. arXiv:2303.07289
- F. Moretti and A. Rojas. On the degree of irrationality of low genus $K3$ surfaces. Available upon request.
- J. Lam, F. Moretti and G. Passeri. Families of subvarieties of a variety with a volume form. Available upon request.

Talks

Seminario di Geometria, Università di Pavia

Brill-Noether theory and Green's conjecture for curves on general abelian surfaces

12/2022

BMS student conference

Linear series via kernel bundles: an application to the degree of irrationality of K3 surfaces 02/2023

Oberseminar, Leibniz-Universität Hannover

Brill-Noether theory and degree of irrationality of surfaces 06/2023

Algebraic Geometry Seminar, Stony Brook

Brill-Noether theory and degree of irrationality of K3 and abelian surfaces 10/2023

Algebra Seminar, Brown University

Brill-Noether theory and degree of irrationality of K3 surfaces 10/2023

Poster and short talks at conferences

Algebraic Geometry in Roma 3

Brill-Noether theory and Green's conjecture for curves on general abelian surfaces **Poster** 06/2022

Algebraic Geometry in L'Aquila

Brill-Noether theory and degree of irrationality of surfaces **5 minutes talk** 07/2023

Agnes at UPenn

Brill-Noether theory and degree of irrationality of K3 and abelian surfaces **Poster** 10/2023

Teaching Experience

Algebra Lineare, Università di Pavia

Exercises, Main instructors: Paola Frediani and Ludovico Pernazza **Linear Algebra for Mathematicians** 2017-2018

Analisi 2, Università di Pavia

Exercise sessions, Main instructor: Laura Spinolo **Multivariable calculus for Engineers** 2017-2018

Geometria, Università di Pavia

Exercise sessions, Main Instructor: Andrea Seppi **Linear Algebra for Engineers** 2017-2018

Scholarships

Scuola Normale Superiore scholarship 2018-2020

Memberships

Scuola Normale Superiore (SNS), alumni

Berlin Mathematical School (BMS)

References

Gavril Farkas

Humboldt Universität zu Berlin

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Robert Lazarsfeld

Stony Brook University

Email: robert.lazarsfeld@stonybrook.edu

Gian Pietro Pirola

Università di Pavia

Email: gianpietro.pirola@unipv.it