

Kartas Konstantinos

kartas@maths.ox.ac.uk

DPhil in Pure Mathematics 2018-present

University of Oxford

Thesis title: Decidability of local fields and their extensions

Supervisors: Ehud Hrushovski, Jochen Koenigsmann

MSc. in Pure Mathematics and Foundations of Computer Science 2017-2018

University of Oxford

87/100 (distinction)

Thesis title: Stable Groups

Supervisor : Ehud Hrushovski

BSc. in Mathematics 2013-2017

Aristotle University of Thessaloniki

9.72/10 (ranked 1st)

Thesis title: Gödel's incompleteness theorems

Supervisor: Athanassios Tzouvaras

RESEARCH PAPERS

Decidability via the tilting correspondence 2020
(*2nd revision under review*)

arXiv: 2001.04424 [math.LO]

Diophantine problems over tamely ramified fields 2021

(*1st revision under review*)

arXiv: 2103.14646 [math.AG]

The asymptotic theory of p -adic fields 2021

(*submitted*)

arXiv:2105.03771 [math.LO]

Diophantine problems over \mathbb{Z}^{ab} modulo prime numbers 2021

(*preprint*)

arXiv:2104.06741 [math.NT]

SURVEY PAPERS

Decidability of local fields and their extensions 2021

(*to appear in the proceedings of the Panhellenic Logic Symposium*)

TALKS

Diophantine problems over tamely ramified fields June. 2021

Oxford Logic seminar

Decidability of local fields (and their extensions) May. 2021

Oxford Junior Number Theory seminar

Diophantine problems over infinitely ramified fields Dec. 2020

MSRI conference on decidability in number theory

Diophantine problems over infinitely ramified fields Nov. 2020

Oxford Logic seminar

Transfer principles and applications <i>BPGMTC University of Leeds</i>	Jan. 2020
Relative decidability via the tilting correspondence <i>Oxford Junior Number Theory seminar</i>	Nov. 2019
Transfer principles and applications <i>Oxford Logic seminar</i>	Dec. 2019
Transfer principles and applications <i>UC Berkeley Logic seminar</i>	Sep. 2019
Some remarks on perfectoid fields <i>Oxford Junior Logic seminar</i>	Dec. 2019
The Kronecker-Weber Theorem <i>Oxford Kinderseminar</i>	Dec. 2018

AWARDS

Onassis Foundation Scholarship <i>To assist with my DPhil studies at the University of Oxford</i>	2019-2022
EPSRC award <i>To pursue my DPhil studies at the University of Oxford</i>	2018-2022
International Mathematical Competition (IMC) <i>Silver medal, Bronze medal</i>	2014,2016
South Eastern European Mathematical Olympiad <i>Bronze medal</i>	2013
Panhellenic mathematical competition <i>Silver medal</i>	2012

RESEARCH VISITS

University of California, Berkeley <i>Host: Prof. Thomas Scanlon</i>	Fall 2019
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TEACHING EXPERIENCE

Tutor: Introduction to schemes <i>University of Oxford</i>	Winter 2021
Teaching assistant: Algebraic geometry <i>University of Oxford</i>	Fall 2020
Tutor: Model Theory <i>University of Oxford</i>	Fall 2019
Teaching assistant: Algebraic number theory <i>University of Oxford</i>	Winter 2019
Teaching assistant: Model Theory <i>University of Oxford</i>	Fall 2018
Preparation classes for university mathematical olympiads <i>Aristotle University of Thessaloniki</i>	Fall 2016

SKILLS AND INTERESTS

Languages Greek (mother tongue)
 English (fluent)
 German (intermediate)

Interests Music composition, improvisation, board games

REFERENCES

Available upon request