

Séverin Philip

PhD in Pure Mathematics

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Born 02/04/1991 Nationality : French

Research interests

- abelian varieties with bad reduction
- arithmetic moduli spaces
- weak approximation in algebraic geometry

Education

- 2018–2021 **PhD student in Number Theory**, *Université Grenoble Alpes*, France.
PhD advisor Prof. G. Rémond, title "Semi-stable reduction of abelian varieties" (defense Oct. 2021).
- 2015–2018 **Masters of Mathematics (MSc.)**, *Université Grenoble Alpes*, France.
Major: Number Theory, with honors, ranked 1st.
- 2017 **"Agrégation de mathématiques"**.
Highly competitive French national exam (ranked 43rd).
- 2015 **License of Mathematics (BSc.)**, *Université Grenoble Alpes*, France.
With honors, ranked 1st.

Current position

- Since October 2021 **Postdoc (ATER position) (incl. teaching resp. 96hrs/yr)**, *Université Grenoble Alpes*, France.

Publications

- S. Philip, *Field of definition of abelian subvarieties* (11 p.), arXiv:2010.12845 (to appear in Journal de Théorie des Nombres de Bordeaux);
- S. Philip, *Variétés abéliennes CM et grosse monodromie finie sauvage* (33 p.), (available online at Journal of Number Theory);
- S. Philip, *On the degree of semi-stable reduction* (16p.) arXiv:2107.13613 (to appear in Bulletin of the London Mathematical Society)

Talks to workshops and seminars

- 2021 Nov. **Number theory seminar**, *Clermont-Ferrand*, France.
Degré de semi-stabilité pour les variétés abéliennes.
- 2021 Sept. **Number theory seminar**, *Grenoble*, France.
Groupes de monodromie finie et degré de semi-stabilité pour les variétés abéliennes.
- 2020 Dec. **Copenhagen Number Theory seminar**, *Copenhagen*, Denmark, (online).
The degree of semi-stable reduction.
- 2020 Dec. **RÉGA seminar**, *Paris*, France, (online).
Critères de réduction pour les variétés abéliennes.

- 2020 Aug. **Homotopical arithmetic geometry seminar**, *RIMS-Kyoto*, Japan, (online).
Good reduction of abelian varieties and Ogg-Néron-Shafarevich criterion.
- 2020 May **Linfoot seminar**, *University of Bristol*, UK, (online).
Semi-stable reduction of abelian varieties.
- 2020 Feb. **"Around the torsion conjecture for abelian varieties" seminar**, *Université Grenoble Alpes*, France.
On ℓ -adic representations 1 & 2.
- 2019 Oct. **Fourier "Phd days"**, *Université Grenoble Alpes*, France.
Semi-stable reduction of abelian varieties.
- 2018 Nov. **"Bernouillis Tafelrunde" seminar**, *University of Basel*, Switzerland.
Field of definition of abelian subvarieties.

Conferences

- 2021 Mar. **Homotopic and Geometric Galois Theory**, *MFO workshop*, Oberwolfach.
Oberwolfach Leibniz graduate student fellow, reporter
- 2019 Jul. **Galois theory and Number theory (2nd French-German summer school)**, *Technical University of Dresden*, Germany.
- 2019 Apr. **Reinventing rational points, IHP program (Spring school)**, *CIRM Luminy*, France.

Languages

French, *Mother tongue.*

English, *fluent, 965 TOEIC.*