

Sergio David Cia Luvecce

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Preprints

March 2024 **Mackey formula for disconnected reductive groups.** hal-04511629

Expositions

Dec. 2023 **A Mackey formula for disconnected reductive groups.**

Nikolaus Conference, RWTH Aachen, Germany.

Oct. 2023 **On a formula for the Lusztig induction over the unipotent representations of finite orthogonal groups.**

Representation Theory at the Villa Denis, Kaiserslautern, Germany.

Attended Conferences

July 2024 **Group Theory in Florence IV**, Università degli Studi di Firenze, Italy.

June 2023 **Representations of Reductive Groups**, RWTH Aachen, Germany.

April 2023 **Oberwolfach Workshop 2316 – Representations of Finite Groups.**

May 2022 **Counting conjectures and beyond**, Isaac Newton Institute for Mathematical Sciences, Cambridge, England.

Dec. 2021 **Nikolaus Conference**, RWTH Aachen, Germany.

PhD Courses and Working Groups

Autumn 2024 Course on **Characteristic classes** by Michael Puschnigg.

Spring 2024 Working group on **Galois Cohomology**.

Autumn 2023 **Course on Deligne-Lusztig theory** by Olivier Dudas.

Education

2021–2026 **PhD, Sorbonne Université (in progress)**

Thesis title: Categorical action over the unipotent representations of finite orthogonal groups.

PhD advisors: Eric Vasserot (Université Paris Cité) and Olivier Dudas (Université d'Aix-Marseille).

2020–2021 **Master in Fundamental Mathematics, Université Paris XIII**

Master thesis: Catégorification des représentations unipotentes des groupes généraux linéaires.

2019–2020 **Degree in Mathematics, Universidad de Zaragoza**

Thesis: Représentations complexes irréductibles des groupes symétriques.
With honors.

Teaching Experience

- 2025 – 2026 **ATER (Teaching Assistant)**, *University of Aix-Marseille*
- Sequences, Integration and Linear Systems for Informatics bachelor students (48 hours).
 - Arithmetic and Reasoning for Informatics bachelor students (78 hours).
 - Mathematical Tools for Biology and Chemistry bachelor students (48 hours).
 - Methodology for Mathematics and Physics students (24 hours).
- 2024 – 2025 **ATER (Teaching Assistant)**, *University of Aix-Marseille*
- Power and Fourier Series for Mathematics bachelor students (27 hours).
 - Arithmetic and Reasoning for Informatics bachelor students (78 hours).
 - Mathematical Tools for Biology and Chemistry bachelor students (24 hours).
 - Real Functions and Complex Numbers for Informatics bachelor students (64 hours).
- 2021 – 2022 **Monitorat**, *Université de Paris*
- Mathematics tutoring for bachelor students (24 hours).
 - Mathematics for Physics students (36 hours).

Scholarships and Awards

- 2021 **PGSM Scholarship**
- 2021 **Academia General Militar Award**
Awarded for the best academic record of the Science Faculty of the Universidad de Zaragoza
- 2020 **Santander Erasmus Scholarship**
Under criterion of academic excellence.
- 2020 **Silver medal**, *International Mathematics Competition for university students*
- 2019 **Silver medal**, *International Mathematics Competition for university students*
- 2018 **Silver medal**, *International Mathematics Competition for university students*
- 2016 **Bronze medal**, *Spanish National Mathematical Olympiad*

Languages

Spanish (Mother tongue), English and French (Fluent).