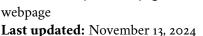
Rubén Izquierdo-López, Master student

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J +34 629949747

My personal



Teaching experience

2024-now Professor at UNIR (Universidad Internacional de la Rioja) teaching

• Differential Equations (2024-2025) for 2nd year students in Physics.

2022-2023 **Teaching assistant** in "Matemáticas Básicas" at Universidad Complutense de Madrid.

Support Teacher at Savannah SLC in Torrejón de Ardoz. 2020-2022

Research experience

Severo Ochoa contract for Master students in CSIC (Instituto de Ciencias Matemáticas) 2023-2024 supervised by Prof. Manuel de León.

JAE Intro research grant supervised by Prof. Manuel de León. 2023

Education

I am currently a PhD student in Mathematics under the supervision of prof. Manuel de 2024- now León.

Master's degree in Advanced Mathematics, (average of 9.77/10) in Universidad Com-2023-2024 plutense de Madrid.

> Thesis title: Coisotropic reduction in Multisymplectic Geometry. Advisor: Manuel de León Rodríguez. Grade: 10.

Bachelor's degree in Mathematics, (average of 9.44/10) in Universidad Complutense 2019-2023 de Madrid. I was awarded with "premio excelencia UCM", for one of the best academic records in Mathematics.

> Thesis title: Simplicial and Cellular Homology. Advisor: Manuel Alonso Morón. Grade: 9.7/10.

Languages

Spanish: Native

English: C1, 100/120 on TOEFL.

Grants

- Severo Ochoa grant for Master students in academic year 2023-2024.
- "Excellence grant" of Comunidad de Madrid in academic years 2020-2021, 2021-2022, 2022-2023.
- **JAE Intro research grant.**

Schools and conferences

November 2024	New Advances in Contact and Symplectic Hamiltonian Dynamics in Great Bay
	University, Dongguan, Guangdong, China. Gave a talk on "Poisson and Dirac struc-
	tures in Classical Field Theories".

September 2024 Workshop de Jóvenes Investigadores in UCM, Madrid. Gave a talk on "Coisotropic reduction in Classical Field Theories".

August 2024 Workshop on Geometric Aspects of Material Modelling in UNED, Madrid. Gave a talk on "The Multisympelctic framework of Field Theories".

June 2024 XVI International ICMAT Summer School on Geometry, Dynamics and Field theory in Miraflores de la Sierra, Madrid.

■ The Geometry of Field Theories in Real Colegio de Santa Cristina, Madrid. Gave a short talk on "Coisotropic reduction in Multisymplectic Geometry".

February 2024 XVIII International Young researchers Workshop in Geometry, Dynamics and Field Theory in Warsaw University. Gave a short talk on "Coisotropic reduction in different phase spaces".

January 2024 XXV Winter Meeting on Geometry, Dynamics and Field Theory in Universidad de Zaragoza.

December 2023 **de León fest** in ICMAT.

November 2023 **BYMAT** in ICMAT. Gave a short talk on "Coisotropic reduction in symplectic, cosymplectic, contact and cocontact geometry".

July 2023 **JAE summer School** in ICMAT.

Talks and seminars

November 2024 New Advances in Contact and Symplectic Hamiltonian Dynamics in Great Bay University, Dongguan, Guangdong, China. Gave a talk on "Poisson and Dirac structures in Classical Field Theories".

September 2024 Workshop de Jóvenes Investigadores in UCM, Madrid. Gave a talk on "Coisotropic reduction in Classical Field Theories".

Seminario de doctorandos in UCM, Madrid. Gave a talk on "Geometría multisimpléctica, el marco para teoría clásicas de campos".

August 2024 Workshop on Geometric Aspects of Material Modelling in UNED, Madrid. Gave a talk on "The Multisympelctic framework of Field Theories".

Gamma Seminar, online. Gave a talk on "Coisotropic reduction in Multisymplectic Geometry".

The Geometry of Field Theories in Real Colegio de Santa Cristina, Madrid. Gave a short talk on "Coisotropic reduction in Multisymplectic Geometry".

February 2024 XVIII International Young researchers Workshop in Geometry, Dynamics and Field Theory in Warsaw University. Gave a short talk on "Coisotropic reduction in different phase spaces".

November 2023 **BYMAT** in ICMAT. Gave a short talk on "Coisotropic reduction in symplectic, cosymplectic, contact and cocontact geometry".

Volunteering

June 2024

July 2024 Assistant in ECM (European Congress of Mathematics) at Universidad de Sevilla.

April 2023 Assistant in "Concurso de Primavera" at Universidad Complutense de Madrid.

Research Publications

Journal Articles

- M. de León and R. Izquierdo-López, "A review on coisotropic reduction in symplectic, cosymplectic, contact and co-contact hamiltonian systems," *Journal of Physics A: Mathematical and Theoretical*, vol. 57, no. 16, p. 163 001, Apr. 2024. O DOI: 10.1088/1751-8121/ad37b2.
- M. de León and R. Izquierdo-López, "Coisotropic reduction in multisymplectic geometry," *Geometric Mechanics*, vol. 01, no. 03, pp. 209–244, 2024. ODI: 10.1142/S2972458924500096.

Preprints

M. de León and R. Izquierdo-López, *Graded poisson and graded dirac structures*, 2024. arXiv: 2410.06034 [math-ph]. **9** URL: https://arxiv.org/abs/2410.06034.