

Verónica Errasti Díez

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EMPLOYMENT

- Assistant Professor on Tenure Track, Dept. of Mathematics, CUNEF Universidad, since 2024.
- Independent Postdoc, Ludwig-Maximilians-Universität, 2021-2024.
- Postdoc, Max-Planck Institut für Physik, 2018-2021.

EDUCATION

PhD in Physics, McGill University, 2018.

MSc in Physics, Kungliga Tekniska Högskolan, 2013.

FIELDS OF INTEREST

Theoretical High Energy Physics, Mathematical Physics.

PUBLICATIONS

Errasti Díez, Verónica; Gaset Rifà, Jordi; Staudt, Georgina: "Foundations of Ghost Stability," *Fortsch. Phys.* 73, 2400268, 2025.

Errasti Díez, Verónica; Maier, Markus; Méndez-Zavaleta, Julio Alberto: "Constraint characterization and degree of freedom counting in Lagrangian field theory," *Phys. Rev. D* 109, 025010, 2024.

Errasti Díez, Verónica; Marinkovic, Marina Krstic: "Symplectic quantization of multifield generalized Proca electrodynamics," *Phys. Rev. D* 105, 105022, 2022.

Errasti Díez, Verónica; Pandey, Mahul; Vaidya, Sachindeo: "Born-Oppenheimer quantization of the matrix model for N=1 super-Yang-Mills theory," *Phys. Rev. D* 102, 074024, 2020.

Errasti Díez, Verónica; Gording, Brage; Méndez-Zavaleta, Julio Alberto; Schmidt-May, Angris: “Complete theory of Maxwell and Proca fields,” *Phys. Rev. D* 101, 045008, 2020.

Errasti Díez, Verónica; Gording, Brage; Méndez-Zavaleta, Julio Alberto; Schmidt-May, Angris: “Maxwell-Proca theory: definition and construction,” *Phys. Rev. D* 101, 045009, 2020.

Errasti Díez, Verónica: “Knot invariants and M-theory: proofs and derivations,” *Phys. Rev. D* 97, 026001, 2018.

Dasgupta, Keshav; Errasti Díez, Verónica; Ramadevi, Pichai; Tatar, Radu: “Knot invariants and M-theory: Hitchin equations, Chern-Simons actions and surface operators,” *Phys. Rev. D* 95, 026010, 2017.

Acharyya, Nirmalendu; Balachandran, Aiyalam; Errasti Díez, Verónica; Subramanian, Bala; Vaidya, Sachindeo: “BRST symmetry: boundary conditions and edge states in QED,” *Phys. Rev. D* 94, 085026, 2016.

Errasti Díez, Verónica; Godbole, Rohini; Sinha, Aninda: “Improvements to the Froissart bound from AdS/CFT,” *Phys. Lett. B* 746, 285-292, 2015.

SELECTED ACADEMIC HONOURS AND GRANTS

Attraction of Talent Emergia 2023, Junta de Andalucía, Spain.

Principal Investigator Vera Rubin Fellowship 2021, Excellence Cluster ORIGINS, Germany.

Bonus for “outstanding performance in research” 2019, Max-Planck Institut für Physik, Germany.

Grad Excellence Award in Physics 2014-2018, McGill University, Canada.

SELECTED PRESENTATIONS

CONFERENCES

Geometric Foundations of Gravity (plenary talk, Estonia, 07/2025), Journeys in Particle Physics (invited talk, India, 03/2025), ORIGINS Science Week (invited research-unit highlight talk, Germany, 11/2024), III Workshop in Current Challenges in Cosmology (invited plenary talk, Colombia, 10/2023), Spanish and Portuguese Relativity Meetings (plenary talk, Spain, 08/2022).

SEMINARS

APEC Seminar (invited talk, Japan, 03/2024), Cosmology Seminar Series (invited talk, Finland, 11/2023), Seminar of the UV Faculty of Physics (invited talk, Mexico, 09/2023).