

Gonzalez L. Eduardo

CONTACT INFORMATION	V. Marzolo, 8 Padova, Italy	Web Page egonzalez@pd.infn.it
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EDUCATION	University of Padova , Padova, Italy	
	Post-doc at the Quantum Theory Group	Until today

Scuola Internazionale Superiore di Studi Avanzati, Trieste, Italy

Statistical Physics PhD student	Oct. 2021
Dissertation: Statistical physics of constrained and long-range interacting quantum systems	

International Centre for Theoretical Physics, Trieste, Italy

Postgraduate Diploma Programme , Condensed Matter Physics	Sep. 2017
Dissertation: Influence of the cobalt phase on the electronic structure of graphene on cobalt	

Higher Institute of Technologies and Applied Science, Havana, Cuba

B.Sc., Nuclear Physics , 5 years course.	May 2014
Dissertation: Study of Threshold displacement energies in BaTiO ₃ using Molecular dynamics.	

RESEARCH INTERESTS	Condensed Matter and Statistical Physics, Quantum Experiments, Strongly Correlated Systems, Data Analysis, Monte Carlo techniques, Scientific Computing
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SKILLS

Programming	<ul style="list-style-type: none">• Gnuplot• Root• L^AT_EX• Git
<ul style="list-style-type: none">• C/C++• Bash• PHP• Qt	
Prosecution of data and work report	

Others

- Servers configuration in Linux
- Web development
- Advanced user in Linux Systems

RESEARCH EXPERIENCE	Research Assistant	Sept 2014 to 2016
	Physics Department, Centre of Technological Applications and Nuclear Development Supervisor: Yamiel A. Alfonso, Ph.D	

Mother tongue

- Spanish

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
English				
C1	C1	C1	C1	B2
Italian				
C1	C1	B1	A2	A2

1. **E. Gonzalez-Lazo**, M. Heyl, M. Dalmonte, A. Angelone; [Finite-temperature critical behavior of long-range quantum Ising models](#). arXiv:2104.15070 [cond-mat.stat-mech]
2. Piotr Sierant, **Eduardo Gonzalez Lazo**, Marcello Dalmonte, Antonello Scardicchio, Jakub Zakrzewski; [Constraints induced delocalization](#). arXiv:2103.14020 [cond-mat.dis-nn]
3. Federica Maria Surace, Matteo Votto, **Eduardo Gonzalez Lazo**, Alessandro Silva, Marcello Dalmonte, and Giuliano Giudici; [Exact many-body scars and their stability in constrained quantum chains](#). Phys. Rev. B **103**, 104302, (2021)
4. Jugovac M., Genuzio F., **Gonzalez E.**, Stojić N., Zamborlini G., Feyer V., Montes T.O., Locatelli A., Schneider C.M.; [Role of carbon dissolution and recondensation in graphene epitaxial alignment on cobalt](#). Carbon **152**, 489-496, (2019)
5. Cruz C. M., **González E.**, Rodríguez A., Guzmán F., Abreu Y., Piñera I., Leyva A.; [Methodology trends on gamma and electron radiation damage simulation studies in solids under high fluency irradiation environments](#). Nuclear Instruments and Methods in Physics Research, Section A, 865, 32-34, (2017)
6. **E. Gonzalez**, C.M. Cruz, A. Rodriguez, F. Guzman, Y. Abreu, I. Pinera, A. Leyva.; [Effects of vacancies on atom displacement threshold energies calculations through Molecular Dynamic Methods in BaTiO₃](#) . Nuclear Instruments and Methods in Physics Research Section A, (2017).
7. **E. Gonzalez**, Y. Abreu, C.M. Cruz, I. Pinera, A. Leyva.; [Molecular-dynamics simulation of threshold displacement energies in BaTiO₃](#). Nuclear Instruments and Methods in Physics Research B, 358, (2015), 142-145.
8. C. M. Cruz, A. Rodríguez, I. Pinera, D. Damiani, Y. Abreu, **E. Gonzalez**, M.D. Durrutí, M. Hernández, A. Leyva, A. Chávez, J.M. Yáñez-Limón; [Gamma Radiation Damage Evaluation Studies on Ferroelectric La and Nb doped PZT Related Ceramics](#). Proceedings of the XV Workshop on Nuclear Physics and IX International Symposium on Nuclear and Related Techniques. WONP-NURT'2015, Havana, Cuba, 2015. pp. 221-225. (ISBN 978-959-300-069-7).
9. **E. Gonzalez**, Y. Abreu, C. M. Cruz, I. Pinera, A. Leyva.; [Study of radiation damage in BaTiO₃, using Molecular-dynamics simulations](#). Proceedings of the XV Workshop on Nuclear Physics and IX International Symposium on Nuclear and Related Techniques. WONP-NURT'2015, Havana, Cuba, 2015. pp. 217-220. (ISBN 978-959-300-069-7).

AWARDS

Programming Awards

- Participating as a contestant in the **ACM-ICPC Caribbean Finals**, Havana, Cuba
Nov 2012 and 2013

PRESENTATIONS

- **XV Workshop on Nuclear Physics and IX International Symposium on Nuclear and Related Techniques** . WONP-NURT, Havana, Cuba Feb 2015
- Physics and Applications of High Brightness Beams. An **ICFA** endorsed workshop. Havana, Cuba March 28-April 1, 2016
- **Korrelationstage 2021** Dresden, Germany April, 2021