

## Gonzalez L. Eduardo

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

**Scuola Internazionale Superiore di Studi Avanzati**, Trieste, Italy

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

**International Centre for Theoretical Physics**, Trieste, Italy

<b>Postgraduate Diploma Programme</b> , 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., <b>Nuclear Physics</b> , 5 years course.	May 2014
Dissertation: Study of Threshold displacement energies in BaTiO <sub>3</sub> using Molecular dynamics.	

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

<b>Programming</b>	<ul style="list-style-type: none"><li>• Gnuplot</li><li>• Root</li><li>• L<sup>A</sup>T<sub>E</sub>X</li><li>• Git</li></ul>
<ul style="list-style-type: none"><li>• C/C++</li><li>• Bash</li><li>• PHP</li><li>• Qt</li></ul>	
<b>Prosecution of data and work report</b>	

### Others

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

RESEARCH EXPERIENCE	<b>Research Assistant</b>	Sept 2014 to 2016
	Physics Department, <b>Centre of Technological Applications and Nuclear Development</b> 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 BaTiO<sub>3</sub>](#) . 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 BaTiO<sub>3</sub>](#). 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 BaTiO<sub>3</sub>, 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