



Guido Masella

Curriculum Vitæ

Birth date May 1st, 1989
Nationality Italian
Status Ph. D. Student

Education

- 02/2017–present **Ph. D. in PHYSICS**, *University of Strasbourg* .
Research topic: *Exotic Quantum Phenomena in Cold Atomic Gases*. Supervisor: Prof. Guido Pupillo
- 2012–2015 **PHYSICS**, *University of Pisa* , Grade 107/110.
2nd level degree (Master's degree) obtained on 22/10/2015 defending the thesis *Many-Body Physics of Strongly interacting Rydberg Atoms*. Supervisor: Dr. Oliver Morsch
- 2008–2012 **PHYSICS**, *University of Pisa* , Grade 106/110.
1st level degree (Bachelor's degree) obtained defending the thesis *A Monte-Carlo Algorithm for Simulation of a Frustrated System* Supervisor: Dr. Giancarlo Cella

Post-graduate studies

- 2016 **POST GRADUATE TRAINING**, *CNR-INO*, Pisa, Italy.
Six months training on the "Characterization of a magneto-optical trap for Dysprosium atoms and implementation of the remote control for the experiment"

Pre-university studies

- 2003–2008 **SCIENTIFIC CERTIFICATE**, *College Gioacchino Pellecchia*, Cassino, Grade 100/100.
Italian secondary school diploma

Awards

- 2018-2019 top-up fellowship from the QMat (Quantum Science and Nanomaterials) international graduate school, University of Strasbourg. (<https://qmat.unistra.fr>)

Publications

- 2018 G. Masella, A. Angelone, F. Mezzacapo, G. Pupillo and N. V. Prokof'ev, 2018, "Supersolid stripe crystal from finite-range interactions on a lattice", to be submitted.
- 2017 C. Simonelli, M. Archimi, L. Asteria, D. Capecchi, G. Masella, E. Arimondo, D. Ciampini, and O. Morsch, 2017, "Deexcitation Spectroscopy of Strongly Interacting Rydberg Gases," *Phys. Rev. A* 96, 043411.

Institut de Sciences et d'Ingénierie Supramoléculaires
8 allée Gaspard Monge – 67083 Strasbourg Cedex, France

☎ +39 334 3531384 • ✉ masella@unistra.fr • in [guido.masella](https://www.linkedin.com/in/guido.masella)
🌐 [gdmsl](https://www.gdmsl.fr) • 📺 [guido.masella](https://www.youtube.com/channel/UCgdm1l)

- 2017 E. Lucioni, G. Masella, A. Fregosi, C. Gabbanini, S. Gozzini, A. Fioretti, L. Del Bino, J. Catani, G. Modugno, and M. Inguscio, 2017, "A New Setup for Experiments with Ultracold Dysprosium Atoms," *The European Physical Journal Special Topics* 226, 2775–2780.
- 2016 C. Simonelli, M. M. Valado, G. Masella, L. Asteria, E. Arimondo, D. Ciampini, and O. Morsch, 2016, "Seeded Excitation Avalanches in Off-Resonantly Driven Rydberg Gases," *J. Phys. B: At. Mol. Opt. Phys.* 49, 154002.
- 2016 R. Faoro, C. Simonelli, M. Archimi, G. Masella, M. M. Valado, E. Arimondo, R. Mannella, D. Ciampini, and O. Morsch, 2016, "Van Der Waals Explosion of Cold Rydberg Clusters," *Phys. Rev. A* 93, 030701.

Languages

- Italian Native speaker
English Proficient in written and spoken English.

Certifications

- 2018 Machine Learning by Stanford University on Coursera. Certificate earned at Sunday, April 8, 2018 5:14 PM GMT
- 2015 Certified *BLS-D* (Basic Life Support and Defibrillation) operator by the Italian Resuscitation Council

References

Prof. Guido Pupillo
Université de Strasbourg
8 allée Gaspard Monge
BP 70028
67083 Strasbourg Cedex, France
✉ pupillo@unistra.fr
☎ +33 3 68 85 52 33

Dr. Oliver Morsch
INO-CNR, Department of Physics
University of Pisa
Largo Pontecorvo 3
56127 Pisa, Italy
✉ morsch@df.unipi.it
☎ +39 050 2214569