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Lucas Clemente

10/2011 – present

PhD Student
Max-Planck-Institute of Quantum Optics & LMU Munich

In the Quantum Information Theory group of Prof. Ignacio Cirac, I co-pioneered the field of Quantum Magnetomechanics. We proposed experimental setups using the magnetic properties of superconductors to observe quantum behavior on massive objects.

10/2009 – 10/2011

Student Research Assistant
Max-Planck-Institute of Quantum Optics

10/2009 – 10/2010

B.Sc. in physics
LMU Munich

07/2008 – 10/2009

Student Research Assistant
Forschungszentrum Dresden-Rossendorf — Plasma Theory

06/2008 – 09/2009

Student Research Assistant
Cluster of Excellence "Munich Advanced Photonics"

10/2007 – 10/2009

Early studies in computer science & physics
TUM / LMU Munich

06/2007 – 05/2008

Student Research Assistant
Maier-Leibnitz-Laboratorium Munich — Simulated Medical Physics

09/1999 – 06/2009

Abitur
Elementary School & Maria-Theresia-Gymnasium

During school I skipped the 1st, 8th and 10th grade, studied computer science and physics and worked as student research assistant at three different institutes. For my final thesis I received the thesis prize of the German Physical Society.

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Personal

Birthday
14/01/1993, Munich, Germany

Interests
Technology, Mathematical Physics, Quantum Information, Economics, Music (Piano), Jogging

Organizations
German National Academic Foundation ("Studienstiftung"), Chaos Computer Club, German Physical Society

Publications

L. Clemente, *et al.*: Poster at 554. WE-Heraeus-Seminar "Quantum Contextuality, Non-Locality and the Foundations of Quantum Mechanics" 2014, Bad Honnef, Germany

L. Clemente, *et al.*: Poster at GRC "Mechanical Systems in the Quantum Regime" 2012, Galveston, TX, USA

O. Romero-Isart, L. Clemente, C. Navau, A. Sanchez, J. I. Cirac: Quantum Magnetomechanics with Levitating Superconducting Microspheres, arXiv:1112.5609, PRL 109, 147205 (2012)

F. Pastawski, L. Clemente, I. Cirac: Quantum memories based on engineered dissipation, arXiv:1010.2901, PRA 83, 012304 (2011)

C. Hoeschen, H. Schlattl, M. Zankl, T. Seggebrock, L. Clemente, F. Grüner: Simulating mammographic absorption imaging and its radiation protection properties, World Congress 2009 — Medical Physics and biomedical engineering

L. Clemente: Integrating Tracking and Beam-Matter Interaction for Beam Line Design, Dresden ENLITE 09