

Curriculum Vitae (condensed)

Personal information

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Research interest

- Quantum information theory
- Structure of quantum theory
- Quantum characterization, certification & benchmarking

Professional experience

- since 2017: Lecturer, University of Siegen, Germany.
- 2020 & 2021: Professor ad interim, University of Duisburg-Essen, Germany.
- 2014 – 2017: Research fellow, UPV/EHU Bilbao, Spain.
- 2014: Research fellow, UFMG Belo Horizonte, Brazil.
- 2010 – 2014: Research fellow, University of Siegen, Germany.
- 2008 – 2010: Research fellow, IQOQI Innsbruck, Austria.
- 2004 – 2008: Research associate, University of Düsseldorf, Germany.

Academic achievements

- since 2020: Venia Legendi for theoretical physics, University of Siegen, Germany.
- 2019: Habilitation, University of Siegen, Germany.
- 2008: PhD in physics, University of Düsseldorf, Germany (Prof. D. Bruß).
- 2004: Diploma in physics. University of Heidelberg, Germany (Prof. K. D. Rothe).

Selected articles

- *User-friendly confidence regions for quantum state tomography*
Phys. Rev. A **109**, 062417 (2024), arXiv:2308.01851
C. de Gois and M. Kleinmann
- *Operational Theories in Phase Space: Toy Model for the Harmonic Oscillator*
Phys. Rev. Lett. **128**, 040405 (2022), arXiv:2101.08323
M. Plávala and M. Kleinmann
- *Tracking the dynamics of an ideal quantum measurement*
Phys. Rev. Lett. **124**, 080401 (2020), arXiv:1903.10398
F. Pokorny, C. Zhang, G. Higgins, A. Cabello, M. Kleinmann, and M. Hennrich
(listed in the “*Physics World Top 10 Breakthroughs of the Year 2020.*”)
- *Entanglement between two spatially separated atomic modes*
Science **360**, 416 (2018), arXiv:1708.02480
K. Lange, J. Peise, B. Lücke, I. Kruse, G. Vitagliano, I. Apellaniz, M. Kleinmann,
G. Tóth, and C. Klempt
- *Quantum correlations are stronger than all nonsignaling correlations produced by n -outcome measurements*
Phys. Rev. Lett. **117**, 150401 (2016), arXiv:1505.04179
M. Kleinmann and A. Cabello
- *Review: Kochen-Specker contextuality*
Rev. Mod. Phys. **94**, 045007 (2022), arXiv:2102.13036
C. Budroni, A. Cabello, O. Gühne, M. Kleinmann, and J.-Å. Larsson