

Rui Han, Ph.D.

Curriculum Vitae

Centre for Quantum Technologies
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SCIENTIFIC QUALIFICATION AND POSITIONS

- Dec 2017 – present **Centre for Quantum Technologies, Singapore**
Senior research fellow since Sept 2019
- Aug 2015 – Nov 2017 **Max Planck Institute for the Science of Light, Erlangen, Germany**
Research fellow
- Feb 2017 – Nov 2017 **Hunter College, City University of New York, New York City, USA**
Visiting research fellow
- Jan 2013 – Jun 2015 **Centre for Quantum Technologies, Singapore**
Research fellow
- Aug 2008 – Jan 2013 **Centre for Quantum Technologies and National University of Singapore**
Ph.D. in physics. Thesis: “Robust Quantum Storage with Three Atoms”
- Aug 2004 – May 2008 **National University of Singapore, Singapore**
Bachelor with honors in Physics

SELECTED PUBLICATIONS

- R. Han**, G. Leuchs, and M. Grassl, *Residual and Destroyed Accessible Information after Measurements*, Phys. Rev. Lett. **120**, 160501 (2018).
- R. Han**, J. A. Bergou, and G. Leuchs, *Near optimal discrimination of binary coherent signals via atom-light interaction*, New J. Phys. **20**, 043005 (2018).
- R. Han**, H. K. Ng and B.-G. Englert, *Implementing a neutral-atom controlled-phase gate with a single Rydberg pulse*, EPL **113**, 40001 (2016).
- “*Quantum Paths: A Festschrift for Berge Englert*”, edited by **R. Han**, and H. K. Ng, World Scientific Publishing Company, ISBN: 978-981-4651-83-7 (2015).
- R. Han**, N. Lörch, J. Suzuki, and B.-G. Englert, *Long-lived qubit from three spin-1/2 atoms*, Phys. Rev. A **84**, 012322 (2011).
- K. L. Lee, B. Gremaund, **R. Han**, B.-G. Englert, and C. Miniatura, *Ultracold Fermions in a Graphene-type Optical Lattice*, Phys. Rev. A **80**, 043411 (2009).

FELLOWSHIP AND SCHOLARSHIP

- Eugen-Lommel Fellowship** Universität Erlangen-Nürnberg and Max Planck Institute, 2015 – 2017.
- Senior Middle School Scholarship (SM2)** bridging course and undergraduate study, National University of Singapore, 2002 – 2008.