Erez Zohar - Curriculum Vitae

February 2022

1. Personal Details

Date of birth: 31.12.1984

Country of birth: Israel

Work address: Office 109, Kaplun Building

Racah Institute of Physics

Givat Ram Campus

The Hebrew University of Jerusalem, Jerusalem 91904, Israel

Email address: erez.zohar@mail.huji.ac.il

2. Employment

7/2019 – Senior Lecturer (Assistant Professor)

Racah Institute of Physics

Hebrew University of Jerusalem

Jerusalem, Israel

1/2018 – 6/2019 Max Planck Harvard Research Center for Quantum Optics

(MPHQ) Postdoctoral Researcher

Max-Planck-Institut für Quantenoptik (MPQ) Theory Division, headed by Prof. J. Ignacio Cirac

Garching bei München, Germany

6/2016 – 12/2017 Senior Postdoctoral Researcher

Max-Planck-Institut für Quantenoptik (MPQ)
Theory Division, headed by Prof. J. Ignacio Cirac

Garching bei München, Germany

3/2014 – 5/2016 Alexander von Humboldt Postdoctoral Researcher

Max-Planck-Institut für Quantenoptik (MPQ) Theory Division, headed by Prof. J. Ignacio Cirac

Garching bei München, Germany

3/2014 – 5/2014 **Postdoctoral Researcher**

Max-Planck-Institut für Quantenoptik (MPQ) Theory Division, headed by Prof. J. Ignacio Cirac

Garching bei München, Germany

3/2008 – 1/2014 **Teaching Assistant**

School of Physics and Astronomy, Tel Aviv University

3. Higher Education

3/2014 – 6/2019 **Postdoctoral Studies**

Max-Planck-Institut für Quantenoptik, Garching bei München, Germany

Host: Prof. J. Ignacio Cirac

(as an Alexander-von-Humboldt fellow between 6/2014-5/2016, as an MPQ-

Harvard fellow since 1/2018)

10/2010 – 12/2013 **Ph.D.** (Direct Track), Physics

School of Physics and Astronomy, Tel Aviv University

Supervisor: Prof. Benni Reznik

(as an Adams fellow fellow since 10/2012)

10/2009 – 9/2010 **M.Sc., Physics**

School of Physics and Astronomy, Tel Aviv University

Supervisor: Prof. Benni Reznik

- Moved to the Ph.D. Direct Track after a year

10/2006 – 7/2009 B.Sc., The combined Mathematics-Physics Program

School of Physics and Astronomy, Tel Aviv University

During the 3rd year – a research project under the supervision of Prof. Yoram

Dagan (honors program)

4. Grants, Scholarships and Fellowships

10/2020 – 9/2024 Israel Science Foundation (ISF) Personal Research Grant – Quantum

Simulators of Gauge Theories – the Next Generation

1/2018 – 6/2019 Max Planck Harvard Research Center for Quantum Optics (MPHQ)

Postdoctoral Fellowship

Granted by the joint MPHQ research center of two research institutions, for

postdoctoral research in the Max Planck institute of Quantum Optics

6/2014-5/2016 Alexander von Humboldt Fellowship for Postdoctoral Researchers

Granted by the Alexander von Humboldt society, for postdoctoral research in the Max

Planck institute of Quantum Optics

10/2012-3/2014 Adams Fellowship

Granted by the Israel Academy of Sciences and Humanities, from 10/2012 until the

end of the PhD studies (given every year to new 10-12 excellent PhD students,

nominated by the universities, until the completion of their PhDs).

10/2011-9/2012 **Dean's Excellence Scholarship**

Faculty of Exact Sciences, Tel-Aviv University

5. Prizes and Awards

2020	Highly commended young quantum scientist 2020 Nomination round of the International Quantum Technology Young Scientist Award, IOP
2015	The Rector's List of Best Teaching Assistants, Tel Aviv University For the academic year 2013-2014
2014	The Rector's Award for Excellence in Teaching, Tel Aviv University For the academic year 2012-2013
2014	The Rector's List of Best Teaching Assistants, Tel Aviv University For the academic year 2012-2013
2013	Anne and Maurice Cohen Research Excellence Prize School of physics and Astronomy, Tel Aviv University
2013	The Rector's List of Best Teaching Assistants, Tel Aviv University For the academic year 2011-2012
2012	Alix De Rothschild Fund for Scholarships in Science and Technology Research prize for 2011-2012
2012	Anne and Maurice Cohen Teaching Excellence Prize School of physics and Astronomy, Tel Aviv University
2011	Shulamit Goldhaber Research Excellence Prize School of physics and Astronomy, Tel Aviv University

6. Supervision of Students and Postdocs

Postdocs

1. **Dr. Johannes Knaute**, 2/2022 –

Won the Excellence Fellowship for International Postdoctoral Researchers of the Israel Academy of Sciences and Humanities

2. **Dr. Tsafrir Armon**, 12/2020 – 9/2021

PhD Students

- 1. Shachar Ashkenazi, 1/2021 –
- 2. **Aryeh Fortinsky**, 10/2021 –
- 3. Ariel Kelman, 10/2021 -
- 4. **Guy Pardo**, 2/2022 Jointly with Prof. Nadav Katz
- 5. Patrick Emonts.

Visiting PhD student from the Max Planck Institute of Quantum Optics (MPQ), 2020 Co-supervised at MPQ, 2017-2019

6. Julian Bender,

Visiting PhD student from the Max Planck Institute of Quantum Optics (MPQ), 2020 Co-supervised at MPQ, 2017-2019

Master Students

- 1. **Tomer Greenberg**, 3/2021 –
- 2. Julian Bender, 10/2016-10/2017, MPQ, co-supervised at MPQ

Digital Quantum Simulation of Lattice Gauge Theories

Grade: 1.0 (highest)

3. **Ilya Kull**, 10/2016-9/2017, MPQ, co-supervised at MPQ

Classification of Matrix Product States with a Local (Gauge) Symmetry

Grade: 1.0 (highest)

4. Daniel González Cuadra, 10/2015-9/2016, MPQ, co-supervised at MPQ

Quantum Simulation of Abelian Lattice Gauge Theories with Ultracold Atoms

Grade: 1.0 (highest)

7. Teaching

At the Hebrew University (lecturer):

- Quantum Information Methods for Many Body Physics (Spring 2020, Spring 2021, Spring 2022 planned) a course developed by me, on quantum simulation and tensor networks.
- Quantum Computation for Physicists (Fall 2021 planned) a course developed by me, teaching the basics of quantum computing from a physical (rather than computer science) perspective

8. Other Academic and Scientific Work

Peer review:

- Nature
- o Physical Review Letters
- o Physical Review X
- o Physical Review X Quantum
- o Physical Review A
- o Physical Review D
- o Review of Modern Physics
- o Philoshopical Transactions of the Royal Society A
- Nature Communications
- SciPost
- New Journal of Physics
- Journal of High Energy Physics
- o Annals of Physics
- o Physics Letters B
- o Ouantum

o Conference and Workshop Organization:

- o **MPQ Theory Group Workshop**, Lenggries, Germany, June
- Quantum Simulation of Strong Interactions (QuaSI) Workshop 1: Theoretical Strategies for Gauge Theories, InQubator for Quantum Simulation, University of Washington, Seattle, USA, April 2021 (online)
- Quantum Simulation of Strong Interactions (QuaSI) Workshop 2: Implementation Strategies for Gauge Theories, InQubator for Quantum Simulation, University of Washington, Seattle, USA, May 2021 (online)
- Annual Retreat of the Hebrew University Quantum Information Center, Ein Gedi, Israel, July 2021
- Discrete lattice gauge theories- emergence and quantum simulations, MCQST workshop, MPQ, Garching, Germany, May 2022 (planned)

o Scientific Journal Editing:

 Guest Editor of the special issue Quantum Technologies in Particle Physics" of the journal Philosophical Transactions of the Royal Society A, published in December 2021.

- o Seminar Organization:
 - o **Quantum Seminar,** Tel Aviv University, 2012-2013
 - o Many Body Theory Seminar, MPQ, 2018 2019
- o <u>Advisory board member</u>, International AIQT (Artificial Intelligence and Quantum Technology) foundation, Chur, Switzerland

9. Conferences, Workshops, Seminars, Research Visits

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1) March 2014 COST action MP1006 on Fundamental Problems in Quantum Physics

Weizmann Institute, Rehovot, Israel

Invited Talk: Simulation of Dynamic Abelian and Non-Abelian Gauge

Theories with Ultracold Atoms

2) June 2015 Cold Atoms meet High Energy Physics

ECT*, Trento, Italy

Invited Key Talk: Quantum Simulation of Lattice Gauge Theories using

Ultracold Atoms

3) June-July 2016 Humboldt Kolleg: From the Vacuum to the Universe

Kitzbühel, Austria

Invited Talk: Projected Entangled Pair States (PEPS) and Local (Gauge)

Symmetries

4) Aug.-Sept. 2016 Quantum Gases and Quantum Coherence: BEC2016

University of Salerno, Italy

Invited Talk: Quantum Simulation of Lattice Gauge Theories with

Ultracold Atoms in Optical Lattices

5) December 2016 632 Heraeus-Seminar – Gauge Field Dynamics with Ultracold Gas Systems

Physikzentrum Bad Honnef, Germany

Invited Talk: Quantum Simulation of Lattice Gauge Theories with

Ultracold Atoms in Optical Lattices

6) May-June 2017 From Static to Dynamical Gauge Fields with Ultracold Atoms

Galileo Galilei Institute, Florence, Italy

Invited Talk: Quantum Simulation of Lattice Gauge Theories with

Ultracold Atoms in Optical Lattices

7) October 2017 Quantum Cup, Joint MPQ-Freiburg workshop

MPQ, Garching, Germany

Invited Talk: Digital Lattice Gauge Theories

8) January 2018 Inauguration Ceremony of the Max Planck Harvard Research Center for

Quantum Optics

Garching and Munich, Germany

Invited Talk: Gauge Symmetries with Cold Atoms and PEPS: Quantum Simulation and Tensor Network Studies of Lattice Gauge Theories

9) March 2018 NPQI 2018 – Intersections between Nuclear Physics and Quantum Information

Argonne National Lab, Argonne, Illinois, USA, March 2018

Invited Talk: Quantum Simulation of Lattice Gauge Theories with

Ultracold Atoms

Participation in a Discussion Panel

10) June 2018 Entanglement in Quantum Systems – Tensor Networks Focus Week

Galileo Galilei Institute, Florence, Italy

Invited Lectures (2 session adding up to 3 hours): **PEPS and local (gauge)**

symmetries

11) September 2018 Quantum Entanglement at Collider Energies

Center for Frontiers in Nuclear Science, Stony Brook University, NY, USA

Invited Talk: PEPS with Gauge Symmetries: Tensor Network Studies of

Lattice Gauge Theories

12) September 2018 Next steps in Quantum Science for HEP Theory

Fermilab, IL, USA

Invited Talk: Tensor Network and Cold Atoms Methods for Lattice Gauge

Theories

13) March 2019 Tensor Networks from Simulation to Holography II

DESY, Zeuthen, Germany

Invited Talk: PEPS with a local (gauge) symmetry – studying lattice gauge

theories with tensor networks in d > 1+1

14) June 2019 High-energy physics at ultra-cold temperatures

ECT*, Trento, Italy

Invited Key Talk: Quantum Simulation of Gauge Theories with Cold

Atoms

15) June 2019 **Humboldt Kolleg: Discoveries and Open Puzzles in Particle Physics and** Gravitation Kitzbühel. Austria Invited Talk: Quantum Simulation and Tensor Networks Methods for **Gauge Theories with Cold Atoms 16)** October 2019 Collaboration Kick-Off Meeting of the HUJI QI Center & IQOQI Vienna IQOQI, Vienna, Austria Invited Talk: Studying Quantum Field Theories with Quantum **Information and Simulation 17**) March 2020 Fritz Haber Symposium Hebrew University, Jerusalem, Israel Invited Talk: Studying Quantum Field Theories with Quantum **Information and Simulation 18)** February 2020 **Entanglement in Strongly Correlated Systems** Benasque, Spain Invited Talk: Absorbing Fermionic Statistics by Lattice Gauge Fields and **Eliminating the Fermions 19**) February 2020 The Batsheva de Rothschild Seminar on Quantum Simulations using Photons, Atoms, and Molecules Tse'elim, Israel Invited Talk: Quantum Simulation of Gauge Theories with Cold Atoms **20**) October 2020 INT Online Program: Scientific Quantum Computing and Simulation on **Near-Term Devices** INT (Institute for Nuclear Theory), University of Washington, Seattle, WA USA Invited Talk: Quantum Simulation of Lattice Gauge Theories in more than 1+1d: Challenges and Methods **21**) April 2021 Quantum Simulation of Strong Interactions (QuaSI) Workshop 1: Theoretical **Strategies for Gauge Theories** InQubator for Quantum Simulation, University of Washington, Seattle, USA Invited Talk: Absorbing fermionic statistics by lattice gauge fields and eliminating fermions **22)** May 2021 **Tensor Networks in Many Body and Quantum Field Theory** INT (Institute for Nuclear Theory), University of Washington, Seattle, WA USA

Invited Talk: Gauged gaussian fermionic PEPS - studying Hamiltonian LGTs in more than 1+1d using tensor networks and Monte-Carlo

23) July 2021 Hebrew University Quantum Center Annual Retreat

Ein Gedi, Israel

Invited Talk: Locally and Unitarily Mapping Lattice Fermions to Bosons in the Presence of a Gauge Field

24) July 2021 Tensor Networks: Quantum Physics, Geometry and Applications

Levico Terme (Trento – organized by the BEC center), Italy

Invited Talk: Gauged gaussian fermionic PEPS - studying Hamiltonian LGTs in more than 1+1d using tensor networks and Monte-Carlo

25) July 2021 Tensor Networks in Many Body and Lattice Field

Tsung-Dao Lee Institute, Shanghai Jiao Tong University, China

Invited Talk: Gauged gaussian fermionic PEPS - studying Hamiltonian LGTs in more than 1+1d using tensor networks and Monte-Carlo

26) October 2021 5th Workshop on the QCD Structure of the Nucleon (QCD-N2021)

Universidad de Alcala, Spain

Invited Talk: Gauged gaussian fermionic PEPS - studying Hamiltonian LGTs in more than 1+1d using tensor networks and Monte-Carlo

Talks in Seminars and Colloquia

1) December 2011 Particle Physics Seminar

Tel Aviv University, Israel

Talk: Confinement and Lattice QED Electric Flux Tubes Simulated with Ultracold Atoms

2) December 2012 Theoretical / Mathematical Physics Seminar

Technion, Haifa, Israel

Talk: Confinement and Lattice QED Electric Flux Tubes Simulated with Ultracold Atoms

3) May 2013 Particle Physics Seminar

Ben-Gurion University, Beer Sheba, Israel

Talk: Simulation of Dynamic Abelian and Non-Abelian Gauge Theories with Ultracold Atoms

4) November 2013 **Particle Physics Seminar**

Tel Aviv University, Israel

Talk: Quantum simulation of Abelian and Non-Abelian Lattice Gauge Theories using Ultracold Atoms

5) April 2014 Quantum Optics Theory Seminar

Max Planck Institute for Quantum Optics, Garching, Germany

Talk: Topological Wilson-loop area law manifested using a superposition of loops

6) April 2014 **Theory Seminar**

Max Planck Institute for Quantum Optics, Garching, Germany

Talk: Simulation of Dynamic Abelian and Non-Abelian Gauge Theories with Ultracold Atoms

7) May 2014 **Quantum Optics Theory Seminar**

Max Planck Institute for Quantum Optics, Garching, Germany

Talk: Supersymmetric Quantum Mechanics

8) Setpember 2014 Quantum Seminar

Hebrew University, Jerusalem, Israel

Talk: Ultracold Atoms as Quantum Simulators for Dynamic Abelian and Non-Abelian Gauge Theories

9) Nov.-Dec. 2014 **Quantum Optics Theory Seminar**

Max Planck Institute for Quantum Optics, Garching, Germany

Three talks: The Vacuum Polarization and QED Renormalization

10) Decemer 2014 Particle Physics Seminar

Tel Aviv University, Israel

Talk: Formulating Lattice Gauge Theories for Tensor Networks and Ouantum Simulations

11) January 2015 Theoretical / Mathematical Physics Seminar

Technion, Haifa, Israel

Talk: Formulating Lattice Gauge Theories for Tensor Networks and Ouantum Simulations

12) January 2015 Condensed Matter Theory Seminar

Max Planck Institute for Quantum Optics, Garching, Germany

Talk: Introduction to Lattice Gauge Theory

13) Jan.-Mar. 2015 **Quantum Field Theory Course**

Max Planck Institute for Quantum Optics, Garching, Germany

A series of weekly introductory lectures on Quantum Field Theory for the Theory Group at MPQ

14) May 2015 **Condensed Matter Seminar**

Harvard University, Cambridge, MA, USA

Talk: Formulating Lattice Gauge Theories for Quantum Simulations

15) October 2015 **Quantum Optics Theory Seminar**

Max Planck Institute for Quantum Optics, Garching, Germany

Talk: Particle Oscillations and Symmetry Violation in the Weak Interactions

16) December 2015 **Quantum Optics Theory Seminar**

Max Planck Institute for Quantum Optics, Garching, Germany

Talk: PEPS and Local (Gauge) Symmetries

17) December 2015 **Condensed Matter Seminar**

Weizmann Institute, Rehovot, Israel

Talk: PEPS and Local (Gauge) Symmetries

18) January 2016 Condensed Matter Seminar

Hebrew University, Jerusalem, Israel

Talk: PEPS and Local (Gauge) Symmetries

19) September 2016 **Condensed Matter Theory Seminar** Max Planck Institute for Quantum Optics, Garching, Germany Talk: A Group Theory Approach to Lattice Gauge Theories **20**) October 2016 **Quantum Optics Theory Seminar** Max Planck Institute for Quantum Optics, Garching, Germany Talk: Gauge theories with ultracold atoms and tensor networks **21**) November 2016 **Condensed Matter Seminar** Tel Aviv University, Israel Talk: Gauge Theories with Cold Atoms and Tensor Networks **Condensed Matter Seminar 22**) November 2016 Hebrew University, Jerusalem, Israel Talk: Gauge Theories with Cold Atoms and Tensor Networks **Quantum Optics Seminar** 23) November 2016 IQOQI, Innsbruck, Austria Talk: Digital Lattice Gauge Theories **24**) November 2016 Colloquium Max Planck Institute for Quantum Optics, Garching, Germany Talk: PEPS with Local (Gauge) Symmetries 25) March 2017 **Lewenstein Group Seminar** ICFO, Castelldefels, Spain Talk: PEPS with Local (Gauge) Symmetries **Quantum Group Seminar 26)** May 2017 University of Ghent, Ghent, Belgium Talk: Gauging PEPS

27) June 2017 **String Theory Journal Club**

Ludwig Maximillian University (LMU), Munich, Germany

Talk: PEPS with Local (Gauge) Symmetries

28) August 2017 **AMO Seminar**

Weizmann Institute, Rehovot, Israel

Talk: Quantum Simulation of Lattice Gauge Theories: from Analog to Digital

29) November 2017 **Condensed Matter Seminar**

Hebrew University, Jerusalem, Israel

Talk: Quantum Simulation of Lattice Gauge Theories: from Analog to Digital

30) November 2017 **AMO Seminar**

Weizmann Institute, Rehovot, Israel

Talk: Gauging PEPS: Constructing and Studying Tensor Networks with Local Gauge Invariance

31) November 2017 **Particle Physics Seminar**

Tel Aviv University, Israel

Talk: Gauging PEPS: Constructing and Studying Tensor Networks with Local Gauge Invariance

32) July 2018 INT Seminar

Institute for Nuclear Theory, University of Washington, USA

Talk: PEPS with Gauge Symmetries: Tensor Network Studies of Lattice Gauge Theories

33) September 2018 IQI Seminar

IQIM, Caltech, Pasadena, USA

Talk: Tensor Network and Cold Atoms Methods for Lattice Gauge Theories

34) October 2018 **Many Body Theory Seminar**

Max Planck Institute for Quantum Optics, Garching, Germany

Talk: Eliminating fermionic matter fields in lattice gauge theories

35) November 2018 **Seminar**

Johannes Gutenberg University, Mainz, Germany

Talk: Tensor Networks and Quantum Simulation Methods for Lattice Gauge Theories

36) November 2019 **SynQS Seminar**

Kirchoff Insitute for Physics, Heidlberg, Germany

Tutorial: Introduction to non-Abelian Gauge Theories

37) December 2019 **Condensed Matter Theory Seminar**

Technical University of Munich (TUM), Garching, Germany

Talk: Eliminating fermions in lattice gauge theories

38) April 2020 **Theory Seminar**

Theory Division, Max Planck Institute of Quantum Optics, Garching, Germany

Talk: Absorbing fermionic statistics by lattice gauge fields and eliminating fermions

39) July 2020 Tensor Networks in High Energy Physics Online Lecture Series

Albert Einstein Institute, Potsdam, Germany

Invited Talk: Absorbing fermionic statistics by lattice gauge fields and eliminating fermions

40) March 2021 ICFO Seminar

ICFO, Castelldefels, Spain

Talk: Absorbing fermionic statistics by lattice gauge fields and eliminating fermions

41) March 2021 **High Energy Theory Seminar**

Tel Aviv University, Israel

Talk: Absorbing fermionic statistics by lattice gauge fields and eliminating fermions

42) November 2021 **Quantum Group Seminar**

University of Ghent, Ghent, Belgium

Talk: Approximating Relativistic Quantum Field Theories with Continuous Tensor Networks

43) December 2021 Tensor Networks in High Energy Physics Online Lecture Series

Albert Einstein Institute, Potsdam, Germany

Invited Talk: Gauged gaussian fermionic PEPS - studying Hamiltonian LGTs in more than 1+1d using tensor networks and Monte-Carlo

Contributed talks at workshops and conferences

1) October 2012 Workshop on Quantum Simulations

UPV/EHU, Bilbao, Spain

Talk: Simulation of Dynamic Abelian and Non-Abelian Gauge Theories with Ultracold Atoms

2) June 2013 Relativistic Quantum Information 2013 North

University of Nottingham, UK

Talk: Simulation of Dynamic Abelian and Non-Abelian Gauge Theories with Ultracold Atoms

3) November 2014 MPQ Theory Group Workshop

Passau, Germany

Talk: Formulating Lattice Gauge Theories for Quantum Simulations

4) May 2015 New Trends in Complex Quantum Dynamics

Cartagena, Spain

Talk: Formulating Lattice Gauge Theories for Quantum Simulations

5) July 2015 Central European Workshop on Quantum Optics 2015

Warsaw, Poland

Talk: Quantum Simulations of Lattice Gauge Theories using Ultracold Atoms

6) May 2016 **MPQ Theory Group Workshop**

Oetz, Austria

Talk: Gauge Symmetries with Cold Atoms and PEPS

7) July 2016 **Quantum Science: Implementations 2016**

Centro de Ciencias de Benasque Pedro Pascual, Benasque, Spain

Tutorial: Quantum Simulation of Lattice Gauge Theories: an introduction

8) September 2016 Humboldt Colloquium – Bridges to the Future: German-Israeli Scientific

Relations

Tel Aviv University, Israel

Talk: Gauge Theories with Tensor Networks and Ultracold Atoms

9) February 2017 Quantum Methods for Lattice Gauge Theories Calculations

Schloss Waldthausen (Mainz Institute for Theoretical Physics), Germany

Talk: PEPS with Local (Gauge) Symmetries

10) May 2017 **New Trends in Complex Quantum Dynamics**

Cartagena, Spain

Talk: Projected Entangled Pair States (PEPS) and Local (Gauge) Symmetries

11) June 2017 **MPQ Theory Group Workshop**

Lenggries, Germany

Talk: Quantum Methods for Lattice Gauge Theories: What, When, Where, Why and Who

12) October 2018 **MPQ Theory Group Workshop**

Nördlingen, Germany

Talk: Lattice Gauge Theories in the Quantum Info Era

13) October 2020 **IOP QUANTUM 2020**

Virtual Conference

Talk: Locally and Unitarily Mapping Lattice Fermions to Bosons in the Presence of a Gauge Field

Further	Conferences	and Workshops	Attended
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1) October 2009	50 Years of the Aharonov-Bohm Effect Tel Aviv University, Israel
2) December 2009	Physical Implementations of Quantum Computing Yad Hashmona, Israel
3) April 2010	QION 10 – Workshop on Quantum Information and Quantum Dynamics in Ion Traps Tel Aviv, Israel
4) November 2010	Minerva-Weizmann Workshop on Entanglement in Atomic Systems Weizmann Institute, Israel
5) September 2011	Workshop on Quantum Field Theory Aspects of Condensed Matter Physics LNF, Frascati, Italy
6) March 2012	QION 12 – Workshop on Quantum Information and Quantum Dynamics in Ion Traps Tel Aviv, Israel
7) May2013	Workshop on Quantum Simulations and Related Topics on the Occasion of the Award of the Wolf Prize to Peter Zoller and Ignacio Cirac Technion, Israel
8) July 2013	Summer Programme on Synthetic Gauge Fields for Photons and Atoms BEC center, Trento, Italy
9) June 2014	Second Kavli-MPQ workshop Max Planck Institute for Quantum Optics, Garching, Germany
10) July 2014	Quantum Science: Implementations 2014 Centro de Ciencias de Benasque Pedro Pascual, Benasque, Spain
11) Ferbruary 2016	Quantum Simulation with Cold Matter and Photons Solvay Institute, Brussels, Belgium