

List of invited talks

Seminars and Colloquia

1. November 2022: Seminar in the group of Prof. Fukuhara at RIKEN Tokyo, Japan, *Quantum simulation with ultracold atoms – from Hubbard models to gauge theories*
2. October 2022: Felix-Bloch Lecture, Leipzig, Germany, *Quantum simulation with ultracold atoms – from Hubbard models to gauge theories*
3. August 2022: Colloquium at MIPPKS, Dresden, Germany, *Quantum simulation with ultracold atoms – from Hubbard models to gauge theories*
4. May 2022: Colloquium at the Belgian Quantum Physics Initiative Meeting, Brussels, *Synthetic gauge fields with ultracold atoms*
5. April 2022: Allgemeines Physikalische Kolloquium der Universität Duisburg-Essen, Germany, *Quantum simulation with ultracold atoms – from Hubbard models to gauge theories*
6. March 2022: JILA Science Seminar, Boulder USA, *Synthetic gauge fields with ultracold atoms*
7. March 2022: Physics Colloquium at CU Boulder, USA, *Quantum simulation with ultracold atoms – from Hubbard models to gauge theories*
8. February 2022: Virtual TU Physics Colloquium Berlin, Germany, *Quantum simulation with ultracold atoms – from Hubbard models to gauge theories*
9. January 2022: Virtual Harvard Physics Colloquium, USA, *Quantum simulation with ultracold atoms – from Hubbard models to gauge theories*
10. December 2021: Virtual SFB-Colloquium Hannover/PTB, Germany, *Quantum simulation with ultracold atoms – from Hubbard models to gauge theories*
11. December 2021: Virtual VCQ-Colloquium, Vienna, Austria, *Quantum simulation with ultracold atoms – from Hubbard models to gauge theories*
12. November 2021: Virtual Physics Colloquium, Julius-Maximilian University of Würzburg, Germany, *Quantum simulation with ultracold atoms – from Hubbard models to gauge theories*
13. November 2021: Virtual talk at the Condensed Matter Seminar at Caltech, USA, *Non-ergodicity and emergent Hilbert-space fragmentation in tilted Fermi-Hubbard chains*
14. July 2021: Virtual talk at Cluster of Excellence *Structures*, Heidelberg, Germany, *Quantum simulation with ultracold atoms – emergent Hilbert-space fragmentation*
15. July 2021: Virtual Colloquium ICFO Barcelona, Spain, *Quantum simulation with ultracold atoms – from Hubbard models to gauge theories*
16. July 2021: Virtual Colloquium MPQ Garching, Germany, *Quantum simulation with ultracold atoms – from Hubbard models to gauge theories*
17. May 2021: Virtual Colloquium “Physik Modern”, LMU Germany, *Quantensimulationen mit ultrakalten Atomen*

18. April 2021: Virtual Colloquium FU Berlin, Germany, *Ultracold atoms in optical lattices out-of-equilibrium*
19. April 2021: Virtual Condensed Matter Theory Seminar Göttingen, Germany, *Experimental evidence for Hilbert-space fragmentation in tilted Fermi-Hubbard chains*
20. March 2021: Virtual Quantum Cafe at Flatiron Institute US, *Ultracold atoms in optical lattices out-of-equilibrium*
21. March 2021: Virtual Science Forum, *Ultracold atoms in optical lattices out-of-equilibrium*
22. December 2020: Virtual Colloquium University of Washington, Seattle, USA, *Out-of-equilibrium phenomena with ultracold atoms in optical lattices*
23. September 2020: Virtual seminar Pennsylvania State University, USA, *Floquet topological phases with ultracold atoms in periodically-driven lattices*
24. September 2020: Virtual seminar series on Quantum Simulation for Nuclear Physics QS4NP, *Simulating lattice gauge theories with ultracold atoms in periodically-driven optical lattices*
25. August 2020: Chilloquium, Harvard College Physics Summer Speaker Series, USA, *From topology to lattice gauge theories*
26. July 2020: Seminar Diller Quantum Center, Technion, Haifa, Israel, *Non-ergodicity in the tilted 1D Fermi-Hubbard model due to kinetic constraints*
27. June 2020: Seminar Quantum Matter Theory Group, Université de Genève, Geneva, Switzerland, *Observation of non-ergodic behavior in the tilted 1D Fermi-Hubbard model*
28. June 2020: Munich Colloquium, Technical University Munich, Germany, *Floquet topological phases with ultracold atoms in periodically-driven honeycomb lattices*
29. June 2020: Virtual L4G Seminar, ICFO, Barcelona Spain, *Floquet topological phases with ultracold atoms in periodically-driven honeycomb lattices*
30. May 2020: Virtual AMO Seminar series, USA, *Floquet topological phases with ultracold atoms in periodically-driven lattices*
31. Feb 2020: Colloquium, Hamburg, Germany, *Floquet topological phases with ultracold bosons in periodically-driven lattices*
32. Dec 2019: Condensed Matter Theory Seminar, Göthe-Universität Frankfurt, Germany, *Floquet topological phases with ultracold bosons in periodically-driven lattices*
33. Nov 2019: CUA Seminar, MIT and Harvard University MA, Cambridge, USA, *Floquet topological phases with ultracold atoms in periodically-driven lattices*
34. May 2019: MPSD Condensed Matter Seminar, CFEL Hamburg, Germany, *Synthetic gauge fields and many-body localization with ultracold atoms in optical lattices*
35. May 2019: Research presentation at the University of Konstanz, Germany, *Synthetic gauge fields with ultracold atoms in optical lattices*

36. March 2019: Optics Seminar at the University of Warsaw, Poland, *Synthetic gauge fields with ultracold atoms in periodically-driven optical lattices*
37. February 2019: JQI Seminar, Washington, USA, *Synthetic gauge fields with ultracold atoms in periodically-driven optical lattices*
38. January 2019: Colloquium Heidelberg Center for Quantum Dynamics, Kirchhoff-Institute for Physics Heidelberg, Germany, *Artificial gauge fields with ultracold atoms in optical lattices*
39. December 2018: ICTP/SISSA seminar in Statistical Physics, Trieste Italy, *Ultracold atoms in periodically-driven optical lattices*
40. December 2018: Colloquium "Optik und kondensierte Materie", University Bonn, Germany, *Artificial gauge fields with ultracold atoms in optical lattices*
41. November 2018: Condensed Matter Theory Seminar Georg-August University Göttingen, Germany, *Floquet engineering with ultracold atoms*
42. February 2018: University of Chicago, Chicago IL, USA, *Towards Floquet engineering with interacting atoms*
43. January 2018: California University, Berkeley CA, USA, *Towards Floquet engineering with interacting atoms*
44. January 2018: Seminar, Stanford University, Stanford CA, USA, *Towards Floquet engineering with interacting atoms*
45. January 2018: Condensed Matter Theory Seminar, Max-Planck Institute for the Physics of Complex Systems, Dresden, Germany, *Towards Floquet engineering with interacting atoms*
46. June 2017: UQUAM Seminar, Max-Planck Institute of Quantum Optics, Garching, Germany, *Merging multiple independent condensates: "Disentangling the Kibble-Zurek mechanism"*
47. October 2016: Third International UQUAM Workshop, Berlin, Germany, *Near-resonant light scattering in a dense quasi-2D Bose gas*
48. April 2016: Condensed matter seminar, Princeton University, Princeton NJ, USA, host: Waseem Bakr *Artificial gauge fields and topology with ultracold bosonic atoms in optical lattices*
49. September 2015: University of Science and Technology of China, Shanghai, host: Yu-Ao Chen *Chern-number measurement and topological charge pumping with ultracold bosonic atoms*
50. July 2015: Science Rocks!, CeNS, LMU Munich *It's a trap! How to make neutral atoms behave like electrons*
51. June 2015: Harvard University, Boston MA, USA, host: Manuel Endres and Mikhail Lukin *Artificial magnetic fields and Chern-number measurement with cold atoms*
52. June 2015: MIT-Harvard Center for Ultracold Atoms, Boston MA, USA, host: Vladan Vuletić *Artificial magnetic fields and Chern-number measurement with cold atoms*

53. June 2015: Boston University, MA, USA, host: Marin Bukov and Anatoli Polkovnikov *Artificial magnetic fields with ultracold atoms in optical lattices and Chern-number measurement*
54. May 2015: LENS, Florence, Italy, host: Jacopo Catani *Chern-number measurement in Hofstadter bands with bosonic atoms*
55. May 2015: ETH Zurich, Switzerland, host: Oded Zilberberg and Gianni Blatter *Chern-number measurement in Hofstadter bands with bosonic atoms*
56. January 2015: Collège de France, Paris, host: Jean Dalibard *Chern-number measurement in Hofstadter bands with bosonic atoms*
57. October 2014: UQUAM Seminar, Max-Planck Institute of Quantum Optics, Garching, Germany, *Chern-number measurement in Hofstadter bands with bosonic atoms*
58. September 2014: Theory Group Seminar, Max-Planck Institute of Quantum Optics, Garching, Germany, host: I. Cirac, *Chern-number measurement in Hofstadter bands with bosonic atoms*
59. November 2013: TU Kaiserslautern, Germany, host: F. Grusdt and M. Fleischhauer, *Zak-Berry's phase & artificial magnetic fields*
60. November 2013: LMU Munich, Germany, host: U. Schollwöck, *Creating artificial magnetic fields with ultracold atoms in optical lattices*
61. September 2012: Group Seminar, I. Bloch, LMU Munich, Germany, *Direct Measurement of the Zak phase in Topological Bloch Bands*
62. November 2011: Group Seminar, I. Bloch, LMU Munich, Germany, *Experimental Realization of Strong Effective Magnetic Fields in an Optical Lattice*