

CURRICULUM VITAE

Personal details

Name Christine Khripkov
Date and place of birth June 4 1987, Lvov, Ukraine
Snail mail Department of Chemistry, Ben-Gurion University of the Negev,
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Education

Oct 2012 – present Ph.D. in Chemistry
Ben-Gurion University of the Negev
Beer-Sheva, Israel
Supervisor: Amichay Vardi
Thesis title: *Chaos and thermodynamics in few-site Bose-Hubbard systems*

Oct 2010 – Oct 2012 Master's degree in Chemistry
Ben-Gurion University of the Negev
Beer-Sheva, Israel
Supervisor: Amichay Vardi

Oct 2006 – Oct 2010 Bachelor's degree in Chemistry
Ben-Gurion University of the Negev
Beer-Sheva, Israel

Scholarships and awards

- ★ Dean Prize, Faculty of Natural Sciences, Ben-Gurion University of the Negev (2013)
- ★ Negev-Zin doctoral scholarship, Ben-Gurion University of the Negev (2012–2016)
- ★ Shariv Prize for excellence by Makhteshim Agan Ltd. (2012)

Teaching assignments

Department of Chemistry, Ben-Gurion University of the Negev:

- * General Chemistry Lab (2010)
- * Quantum Mechanics II (2011–present)
- * Introduction to Spectroscopy (2011–present)

Conferences and summer schools

- * BEC 2014 Workshop on Quantum Gases and Quantum Coherence;
Levico Terme, Italy (May 28–31, 2014).
- * COST meeting on Fundamental Problems in Quantum Mechanics;
Weizmann Institute of Science, Rehovot, Israel (March 24–27, 2014).
- * OIST Workshop on Coherent Control of Complex Quantum Systems;
Onna, Okinawa, Japan (May 7–12, 2013).
- * The 58th meeting of the Israeli Physical Society;
The Hebrew University of Jerusalem, Israel (December 9, 2012).
- * BEC 2012 Workshop on the Theory of Quantum Gases and Quantum Coherence;
ENS Lyon, France (June 5–8, 2012).
- * The 77th meeting of the Israeli Chemical Society;
Kfar Makabia, Israel (February 7–8, 2012).
- * The 57th meeting of the Israeli Physical Society;
Tehnon - Israel Institute of Technology, Haifa, Israel (December 25, 2011).
- * Pre-doctoral school on Cold Gases with Long Range Interactions;
Les Houches, France (September 18–30, 2011).
- * ICOLS workshop on Cold Gases and Quantum Optics;
Hannover, Germany (2011 June 5–8).

Publications

1. Christine Khripkov and Amichay Vardi. Coherence oscillations between weakly coupled Bose-Hubbard dimers. *Phys. Rev. A* **89** 053629 (2013) arXiv:1405.2508
2. Christine Khripkov, Carlo Piermarocchi, and Amichay Vardi. Dynamics of microcavity exciton-polaritons in a Josephson double dimer. *Phys. Rev. B* **88** 235305 (2013) arXiv:1307.6691
3. Christine Khripkov, Doron Cohen and Amichay Vardi. Temporal fluctuations in the bosonic Josephson junction as a probe for phase-space tomography. *J. Phys. A: Math. Theor.* **46** (2013) 165304 arXiv:1204.3242
4. Christine Khripkov, Amichay Vardi and Doron Cohen. Suppressing matter-wave squeezing by periodic, erratic, or noisy driving. *Eur. Phys. J. Special Topics* **217** 215–220 (2013) arXiv:1209.4498
5. Christine Khripkov, Doron Cohen and Amichay Vardi. Coherence dynamics of kicked Bose-Hubbard dimers: Interferometric signatures of chaos. *Phys. Rev. E* **87** 012910 (2013) arXiv:1209.4426
6. Christine Khripkov, Amichay Vardi and Doron Cohen. Squeezing in driven bimodal Bose-Einstein Condensates: Erratic driving versus noise. *Phys. Rev. A* **85** 053632 (2012) arXiv:1201.3993
7. ^{a,b} Christine Khripkov and Amichay Vardi. Quantum Zeno control of coherent dissociation. *Phys. Rev. A* **84** 021606(R) (2011) arXiv:1110.1952

^a Selected for publication in the APS virtual journal on Atomic Qunatum Fluids.

^b Selected for publication in the APS virtual journal on Quantum Information.