

# Vladimir Yurovsky

## List of Publications

### PAPERS IN REFERRED JOURNALS

- [1] Pazdzersky, V. A., Usachenko, V. I. & Yurovsky, V. A. Multiphoton absorption of the electromagnetic radiation momentum in plasma. *Sov. Phys. J.* **26**, 471–475 (1983).
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## CHAPTERS IN BOOKS

- [1] Yurovsky, V. & Ben-Reuven, A. Incomplete optical shielding in cold sodium atom traps. In *Spectral Line Shapes Vol. 9, Proceedings of the 13th Conference on Spectral Line Shapes*, no. 386 in AIP Conf. Proc., 271 – 274 (AIP, New York, 1997).
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## INVITED TALKS

1. Yurovsky V.A., Ben-Reuven A. Formation of a molecular Bose-Einstein condensate and an entangled atomic gas by Feshbach resonance. LPHYS'02, Bratislava, 2002.
2. Yurovsky V.A. Quantum many-body effects on nonadiabatic transitions. Workshop on Nonadiabatic Transitions in Quantum Mechanics. Moscow-Chernogolovka, 2003.

3. Yurovsky V.A. Formation of molecules due to Feshbach resonances in quantum gases. LPHYS'03, Hamburg, 2003.
4. Yurovsky V.A., Ben-Reuven A. Quantum many-body effects on curve crossing. Workshop on Radiationless and Laser-controlled Transitions, Holon, 2004.
5. Yurovsky V.A. Multichannel collisions in atomic waveguides. LPHYS'04, Trieste, 2004.
6. Yurovsky V.A. Effect of Feshbach resonances on collisions in atomic waveguides. ITAMP Workshop: Quantum Degenerate Gases in Low-Dimensionality, Cambridge, 2004.
7. Yurovsky V.A. Quantum many-body theory of molecular formation in Bose gases due to Feshbach resonances. James Franck meeting on "Dynamics of cold Molecules" Rehovot, 2004.
8. Yurovsky V.A. Three-body collisions with Feshbach-resonance interactions in one dimension. LPHYS'05, Kyoto, 2005.
9. Yurovsky V.A. Properties, formation, and break-up of quasi-one-dimensional molecules. Minerva Workshop on Quantum Atom Optics, Eilat, 2005.
10. Yurovsky V.A. Reactions and inelastic collisions of quasi-one-dimensional atoms and molecules. LPHYS'06, Lausanne, 2006.
11. Yurovsky V.A. Non-integrability in atom waveguides. LPHYS'07, Leon, 2007.
12. Yurovsky V.A. Effect of non-integrability on reactions and collisions in quasi-one-dimensional ultracold gases. Batsheva de Rothschild Seminar on ultrafast-ultracold processes, Ein-Gedi, Israel, 2008.
13. Yurovsky V.A. Mechanisms of thermalization in two-dimensional optical lattices. LPHYS'08, Trondheim, 2008.
14. Yurovsky V.A., Olshanii M. Quantum chaos with ultracold atoms. LPHYS'09, Barcelona, 2009.
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19. Yurovsky V.A. Selection rules, conservation laws, and correlations in permutation-symmetric spinor quantum gases. LPHYS'14, Sofia, 2014.
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28. Yurovsky V.A. Diffractive three-body collisions in coupled atom waveguides. LPHYS'19, Gyeongju, 2019.
29. Yurovsky V.A. Quantum fluctuations in nonlinear Schroedinger breathers. New Trends in Contemporary Optics Conference, Vinh, 2019.

## ABSTRACTS

1. Bunkin F.V., Derzhiev V.I., Mesyats G.A., Skakun V.S., Tarasenko V.F. , Yurovsky V.A., Yakovlenko S.I. Beam pumping of rare gases mixtures with hydrogen. The 12-th All-Union conference on coherent and nonlinear optics. Moscow,1985.
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5. Kartavthev O.I., Yurovsky V.A. Radiationless decay of two-atom molecules in the absence of term crossing. X-th All-Union conference on physics of electron and atom collisions, Uzhgorod,1988.
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