БИБЛИОГРАФИЈА ПУБЛИКАЦИЈА - др Антун Балаж

Радови у међународним часописима

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Књиге и поглавља у монографијама

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Предавања по позиву на конференцијама

[1] “Geometric Resonances in Bose-Einstein Condensates with two- and three-body Interactions”, Invited talk at the Symposium Nonlinear Dynamics - Milutin Milanković: Multidisciplinary and Interdisciplinary Applications (SNDMIA 2012), 1-5 October 2012, Belgrade.

[2] “Numerical Study of Ultracold Quantum Gases: Formation of Faraday Patterns, Geometric Resonances, and Fragmentation”, Invited talk at the HP-SEE User Forum, 17-19 October 2012, Belgrade.

[3] “Nonlinear Excitations in Bose-Einstein Condensates: Parametric and Geometric Resonances, Invited talk at the 13th International Balkan Workshop on Applied Physics, 4-6 July 2013, Constanta, Romania.

[4] “Проучавање диполних Бозе-Ајнштајн кондензата у анизотропним слабим потенцијалима са неуређеношћу”, Предавање по позиву на конференцији Дани физике кондензованог стања материје, 10-12. септембар 2013, САНУ, Београд.

[5] “Controlling BEC Properties via Disorder and Driving”, Invited talk at the 14th International Balkan Workshop on Applied Physics, 2-4 July 2014, Constanta, Romania.

[6] "Memory Models in HPC: Successes and Problems”, 16th International workshop on Advanced Computing and Analysis Techniques in physics research (ACAT 2014), 1-5 September 2014, Prague, Czech Republic.

[7] “Droplet Formation in Quantum Ferrofluids in Ring Trap Geometry”, SuperFluctuations 2017, University of Camerino and University of Padova, 6-8 September 2017, San Benedetto del Tronto, Italy.

[8] "Vortices in Dipolar Bose-Einstein Condensates", International Conference on Multi-Condensate Superconductivity and Superfluidity in Solids and Ultra-cold Gases, ICTP, Trieste, Italy, 14 - 18 May 2018.

[9] "Ground state of an ultracold Fermi gas of tilted dipoles", SuperFluctuations 2018 - Fluctuations and Highly Nonlinear Phenomena in Superfluids and Superconductors, San Benedetto del Tronto, Italy, 5 - 7 September 2018.

[10] “Parallel algorithms for solving the GP equation with contact and dipolar interaction terms”, Computing Across Scales: Quantum Systems in Cold-Matter Physics and Chemistry workshop, Fields Institute, Toronto, Canada, 22 - 26 April 2019.

[11] “Stability of quantum degenerate Fermi gases of tilted polar molecules”, SuperFluctuations 2019, Padova, Italy, 2 – 4 September 2019.

[12] “Droplets and vortices in dipolar Bose-Einstein condensates”, Workshop of the COST Action CA16221 - Quantum Technologies with Ultra-Cold Atoms – AtomQT, Belgrade, Serbia, 29 – 30 August 2019.

[13] “Faraday and Resonant Waves in Dipolar Cigar-Shaped Bose-Einstein Condensates”, Invited talk, Superfluctuations 2020, 22-23 Jun 2020, University of Camerino and University of Padova, Italy (online).

[14] “Transition from BEC to supersolid to quantum droplets in dipolar condensates in a ring potential”, Invited talk, Superfluctuations 2021, 14-16 June 2021, University of Camerino and University of Padova, Italy (online).

[15] “BEC-supersolid-quantum droplets transition in dipolar condensates in a ring potential”, Workshop on Prospects of Quantum Bubble Physics, 6-7 April 2022, Hannover, Germany (online)

[16] “Stability of quantum degenerate fermionic polar molecules with and without microwave shielding”, Superfluctuations 2022, 6-8 July 2022, Padova, Italy

[17] "Stability of vortices in dipolar droplets", 21st Symposium on Condensed Matter Physics (SFKM 2023), 26-30 June 2023, Belgrade, Serbia