

LISTA PUBBLICAZIONI

PREPRINTS

- W. Dybalski, A. Pizzo. Coulomb scattering in the massless Nelson model III. Ground state wave functions and non-commutative recurrence relations.
Preprint 2017, <https://arxiv.org/abs/1704.02924>, 45 pages, submitted to “Annales Henri Poincare”
- A. Pizzo. Bose particles in a box III. A convergent expansion of the ground state of the Hamiltonian in the mean field limiting regime.
Preprint 2016, <https://arxiv.org/pdf/1511.07026.pdf>, 53 pages
- A. Pizzo. Bose particles in a box II. A convergent expansion of the ground state of the Bogoliubov Hamiltonian in the mean field limiting regime.
Preprint 2015, <https://arxiv.org/pdf/1511.07025.pdf>, 88 pages, submitted to “Reviews in Mathematical Physics”
- A. Pizzo. Bose particles in a box I. A convergent expansion of the ground state of a three-modes Bogoliubov Hamiltonian.
Preprint 2015, <https://arxiv.org/abs/1511.07022>, 76 pages, submitted to “Advances in Mathematics”
- W. Dybalski, A. Pizzo. Coulomb scattering in the massless Nelson model II. Regularity of ground states.
Preprint 2013, <http://arxiv.org/abs/1302.5012>, 88 pages, submitted to “Reviews in Mathematical Physics”

PUBBLICAZIONI SU RIVISTA

- V. Bach, M. Ballesteros, A. Pizzo. Existence and Construction of Resonances for Atoms Coupled to the Quantized Radiation Field.
Accettato da ADVANCES IN MATHEMATICS, in stampa.
- Deckert A-D, Fröhlich J, Pickl P, Pizzo A (2014). Dynamics of sound waves in an Interacting Bose Gas.
ADVANCES IN MATHEMATICS, vol. 293, p. 275, 48 pages, 2016
- Dybalski W, Pizzo A. Coulomb scattering in the massless Nelson model I. Foundations of two-electron scattering .
JOURNAL OF STATISTICAL PHYSICS, vol. 154, p. 543, 45 pages, 2014
- Deckert A-D, Fröhlich J, Pickl P, Pizzo A. Effective Dynamics of a Tracer Particle Interacting with an Ideal Bose Gas.
COMMUNICATIONS IN MATHEMATICAL PHYSICS, vol. 328, p. 597, 28 pages, 2014

- Deckert A-D, Pizzo A. Ultraviolet Properties of the Spinless, One-Particle Yukawa Model .
COMMUNICATIONS IN MATHEMATICAL PHYSICS, vol. 327(3), p. 887, 34 pages, 2014
- Pizzo A, Renfrew D, Soshnikov A. On finite rank deformations of Wigner matrices.
ANNALES DE L'INSTITUT HENRI POINCARÉ-PROBABILITÉS ET STATISTIQUES, vol. 49, p. 64, 31 pages, 2013
- Pizzo A, Renfrew D, Soshnikov A. Fluctuations of Matrix Entries of Regular Functions of Wigner Matrices.
JOURNAL OF STATISTICAL PHYSICS, vol. 146, p. 550, 42 pages, 2012
- Bachmann S, Deckert D, Pizzo A. The mass shell of the Nelson model without cut-offs .
JOURNAL OF FUNCTIONAL ANALYSIS, vol. 263, p. 1224, 59 pages, 2012
- De Roeck W, Fröhlich J, Pizzo A. Absence of Embedded Mass Shells: Cerenkov Radiation and Quantum Friction.
ANNALES HENRI POINCARÉ', vol. 11, p. 1545, 45 pages, 2010
- Chen T, Fröhlich J, Pizzo A. Infraparticle Scattering States in Non-Relativistic QED: I. The Bloch-Nordsieck Paradigm.
COMMUNICATIONS IN MATHEMATICAL PHYSICS, vol. 294, p. 761, 65 pages, 2010
- Fröhlich J, Pizzo A, Schlein B. Ionization of Atoms by Intense Laser Pulses . ANNALES HENRI POINCARÉ', vol. 11, p. 1375, 33 pages, 2010
- De Roeck W, Fröhlich J, Pizzo A. Quantum Brownian Motion in a Simple Model System .
COMMUNICATIONS IN MATHEMATICAL PHYSICS, vol. 293, p. 361, 38 pages, 2010
- Fröhlich J, Pizzo A . Renormalized Electron Mass in Nonrelativistic QED.
COMMUNICATIONS IN MATHEMATICAL PHYSICS, vol. 294, p. 439, 32 pages, 2010
- Chen T, Fröhlich J, Pizzo A. Infraparticle scattering states in nonrelativistic quantum electrodynamics. II. Mass shell properties.
JOURNAL OF MATHEMATICAL PHYSICS, vol. 50, ISSN: 0022-2488, 2009
- Bach V, Fröhlich J, Pizzo A. Infrared-finite algorithms in QED II. The expansion of the groundstate of an atom interacting with the quantized radiation field.
ADVANCES IN MATHEMATICS, vol. 220, p. 1023, 52 pages, 2009
- Pizzo A (2009). The infrared problem in nonrelativistic QED. In: XVIth International Congress on Mathematical Physics. p. 200-221, Praga:edited by Pavel Exner, published by World Scientific, Prague, 3-8 August 2009
- Fröhlich J, Pizzo A. On the Absence of Excited Eigenstates of Atoms in QED.
COMMUNICATIONS IN MATHEMATICAL PHYSICS, p. 803, 34 pages, 2009
- Bach V, Fröhlich J, Pizzo A. An Infrared-Finite Algorithm for Rayleigh Scattering Amplitudes, and Bohr's Frequency Condition.
COMMUNICATIONS IN MATHEMATICAL PHYSICS, vol. 274, p. 457, 30 pages, 2007

- Fröhlich J, Knowles A, Pizzo A. Atomism and quantization.
JOURNAL OF PHYSICS. A, MATHEMATICAL AND THEORETICAL, vol. 12, p. 3033,
13 pages, 2007
- Bach V, Fröhlich J, Pizzo A. Infrared-Finite Algorithms in QED: The Groundstate of an
Atom Interacting with the Quantized Radiation Field.
COMMUNICATIONS IN MATHEMATICAL PHYSICS, vol. 264, p. 145, 21 pages, 2006
- Pizzo A. Scattering of an Infraparticle: The One-particle Sector in Nelson's Massless
Model.
ANNALES HENRI POINCARÉ', vol. 3, p. 553, 54 pages, 2005
- Pizzo A . One-particle (improper) States in Nelson's Massless Model.
ANNALES HENRI POINCARÉ', vol. 4, p. 439, 48 pages, 2003