

Publications of Ioannis Anapolitanos

Research Articles:

Published

1. (With I.M. Sigal) "Long Range behavior of van der Waals force"
Comm. Pure Appl. Math., 70(9):1633-1671, 2017.
2. (With M. Hott and D. Hundertmark) Derivation of the Hartree equation for
compound Bose gases in the mean field limit. Rev. Math. Phys., 29(7):1750022, 28, 2017.
3. (With M. Hott) A simple proof of convergence to the Hartree dynamics in
Sobolev trace norms. J. Math. Phys., 57(12):122108, 8, 2016.
4. "Remainder estimates for the Long Range behavior of the van der
Waals Interaction energy" May 2016, Ann. Henri Poincaré Volume
17 (5), 1209-1261 (2016).
5. (With M. Griesemer)"Multipolarons in a constant magnetic field"
Ann. Henri Poincaré Volume 15 (6), pp 1037-1059 (2014).
6. (With B. Landon)"The ground state energy of the multi-polaron in the
strong coupling limit" Lett. Math. Phys. 103 (12), 1347-1366 (2013).
7. "Rate of convergence towards the Hartree-von Neumann limit
in the mean-field regime" Lett. Math. Phys. 98 (1), 1-31 (2011).

Proceedings

1. (With B. Landon) "On the ground state energy of the multipolaron in the strong
coupling limit" Mathematical results in quantum mechanics, World Sci. Publ.,
Hackensack, NJ, 193-200 (2015).
2. (With I.M. Sigal) "On long range behaviour of van der Waals force" Mathematical
results in quantum mechanics, World Sci. Publ., Hackensack, NJ, 47-75 (2015).

PhD Thesis

On van der Waals forces. Thesis (Ph.D.)University of Toronto (Canada). 119 pp.
ISBN: 978-0494-82379-8" (2011).

Preprints

1. (With M. Lewin) Compactness of molecular reaction paths in quantum mechanics.
arXiv:1809.06110.
2. (With M. Hott) Asymptotic behavior of the ground state energy of a
Fermionic Fröhlich multipolaron in the strong coupling limit. arXiv:1601.05272.