

Adrian - Constantin Pena




Date of birth: 11.07.1990

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Employment

2018  **Research Assistant**, National Institute of Materials Physics.







Education

- 2018  **Ph.D. student, University of Bucharest, Faculty of Physics.**
- 2016 – 2018  **M.Sc. Theoretical Physics, University of Bucharest, Faculty of Physics.**
Thesis title: *Polarization effects in double Compton scattering.*
- 2012 – 2016  **B.Sc. Physics, University of Bucharest, Faculty of Physics.**
Thesis title: *The Mott effect.*

Interests

-  Transport in nanoscale devices.
-  Topological insulators.
-  Field-induced effects in condensed matter physics.
-  Nanotechnology.
-  Photoelectron spectroscopy.

Research Publications

-  A. Pena, “Electron trapping in magnetic driven graphene quantum dots,” *Physica E: Low-dimensional Systems and Nanostructures*, vol. 141, p. 115 245, 2022, ISSN: 1386-9477.  DOI: <https://doi.org/10.1016/j.physe.2022.115245>.
-  A. Pena, “Electron trapping in twisted light driven graphene quantum dots,” *Phys. Rev. B*, vol. 105, p. 045 405, 4 Jan. 2022.  DOI: 10.1103/PhysRevB.105.045405.
-  A. Pena, “Lifetime enhancement of quasibound states in graphene quantum dots via circularly polarized light,” *Phys. Rev. B*, vol. 105, p. 125 408, 12 Mar. 2022.  DOI: 10.1103/PhysRevB.105.125408.