

Publicações do Grupo de Ótica Quântica e Informação Quântica da UFMG:

Publicações em 2019 (lista parcial)

R. A. Ribeiro, A. A. Matoso, L. E. Oxman, A. Z. Khoury, and S. Pádua: Robustness of the fractional topological phase to dephasing. [Phys. Rev. A **99**, 042101](#) (2019).

P. Machado, A. A. Matoso, M. R. Barros, L. Neves, and S. Pádua: Engineering quantum correlations for $m \times n$ spatially encoded two-photons states. [Phys. Rev. A **99**, 063839](#) (2019).

W. R. Cardoso, D. F. Barros, M. R. Barros, and S. Pádua: Implementing positive-operator-valued-measurement elements in photonic circuits for performing minimum quantum state tomography of path qudits. [Phys. Rev. A **99**, 062324](#) (2019).

Marina F. B. Cenni, Raul Corrêa, and Pablo L. Saldanha: Effective electrostatic attraction between electrons due to quantum interference. [Phys. Rev. A **100**, 022101](#) (2019).

Filomeno S. de Aguiar Júnior, André Saraiva, Marcelo F. Santos, Belita Koiller, Reinaldo de Melo e Souza, Arthur Patrocínio Pena, Raigna A. Silva, Carlos H. Monken, and Ado Jorio: Stokes–anti-Stokes correlated photon properties akin to photonic Cooper pairs. [Phys. Rev. B **99**, 100503\(R\)](#) (2019).

Adalberto D. Varizi and Raphael C. Drumond: Quantum Ising model in a period-2 modulated transverse field. [Phys. Rev. E **100**, 022104](#) (2019).

A. A. Matoso, R. A. Ribeiro, L. E. Oxman, A. Z. Khoury, and S. Pádua: Fractional topological phase measurement with a hyperentangled photon source. [Scientific Reports **9**, 577](#) (2019).

Omar Jiménez, Miguel Angel Solís-Prosser, Leonardo Neves, and Aldo Delgado: Quantum Discord, Thermal Discord, and Entropy Generation in the Minimum Error Discrimination Strategy. [Entropy **21**, 263](#) (2019).

Davi F. Barros, Luis F. Muñoz-Martínez, Luis Ortiz-Gutiérrez, Camilo A.E. Guerra, Johan E.O. Morales, Raoni S.N. Moreira, Natália D. Alves, Ayanne F.G. Tieco, Daniel Felinto, Pablo L. Saldanha: Fock-state superradiance in a cold atomic ensemble. [OPTICS COMMUNICATIONS **443**, 34](#) (2019).

Publicações em 2018

L. Ortiz-Gutiérrez, L. F. Muñoz-Martínez, D. F. Barros, J. E. O. Morales, R. S. N. Moreira, N. D. Alves, A. F. G. Tieco, P. L. Saldanha, and D. Felinto: Experimental Fock-State Superradiance. [Phys. Rev. Lett. **120**, 083603](#) (2018).

Helena Bragança, Shiro Sakai, M. C. O. Aguiar, and Marcello Civelli: Correlation-Driven Lifshitz Transition at the Emergence of the Pseudogap Phase in the Two-Dimensional Hubbard Model. [Phys. Rev. Lett. **120**, 067002](#) (2018).

A. C. Cardoso, L. P. Berruezo, D. F. Ávila, G. B. Lemos, W. M. Pimenta, C. H. Monken, P. L. Saldanha, and S. Pádua: Classical imaging with undetected light. [Phys. Rev. A **97**, 033827](#) (2018).

Jader P. Santos, Alberto L. de Paula, Jr., Raphael Drumond, Gabriel T. Landi, and Mauro Paternostro: Irreversibility at zero temperature from the perspective of the environment. [Phys. Rev. A **97**, 050101\(R\)](#) (2018).

G. F. Borges, R. D. Baldijão, J. G. L. Condé, J. S. Cabral, B. Marques, M. Terra Cunha, A. Cabello, and S. Pádua: Automated quantum operations in photonic qutrits. [Phys. Rev. A **97**, 022301](#) (2018).

A. J. Jesus-Silva, Juarez G. Silva, C. H. Monken, and E. J. S. Fonseca: Experimental cancellation of aberrations in intensity correlation in classical optics. [Phys. Rev. A **97**, 013832](#) (2018).

Leonardo da Silva Souza, Tiago Debarba, Diego L. Braga Ferreira, Fernando Iemini, and Reinaldo O. Vianna: Completely positive maps for reduced states of indistinguishable particles. [Phys. Rev. A **98**, 052135](#) (2018).

N. S. Móller, A. L. de Paula, Jr., and R. C. Drumond: Shielding property for thermal equilibrium states in the quantum Ising model. [Phys. Rev. E **97**, 032101](#) (2018).

Raul Corrêa, Marina F. B. Cenni, and Pablo L. Saldanha: Quantum Interference of Force. [Quantum **2**, 112](#) (2018).

Leonardo Neves and Graciana Puentes: Photonic Discrete-time Quantum Walks and Applications. [Entropy **20**, 731](#) (2018).

Raphael C. Drumond, Cristhiano Duarte, *and* Roberto I. Oliveira: Small violations of Bell inequalities for multipartite pure random states. [Journal of Mathematical Physics **59**, 052202](#) (2018).

Eduardo Lages, Wilder Cardoso, Gustavo Foresto Brito Almeida, Lívia Siman, Oscar Mesquita, Cleber Renato Mendonça, Ubirajara Agero, and Sebastião Pádua: Measurement of the refractive index profile of waveguides using defocusing microscopy. [Applied Optics **57**, 8699](#) (2018).