

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

Publicações em 2020 (lista parcial)

- F. Scazza, G. Valtolina, A. Amico, P. E. S. Tavares, M. Inguscio, W. Ketterle, G. Roati, M. Zaccanti: Exploring emergent heterogeneous phases in strongly repulsive Fermi gases. [Phys. Rev. A. 101, 013603](#) (2020).
- Flávio L. N. Santos, Mônica A. Caracanhas, M. C. O. Aguiar, and Rodrigo G. Pereira: Bound states in two-dimensional Fermi systems with quadratic band touching. [Phys. Rev. B 101, 155120](#) (2020).
- G. H. Aguiar, R. S. Piera, P. L. Saldanha, R. L. de Matos Filho, and S. P. Walborn: Robust Interferometric Sensing Using Two-Photon Interference. [Phys. Rev. Applied 14, 024028](#) (2020).
- S. P. Walborn, G. H. Aguiar, P. L. Saldanha, L. Davidovich, and R. L. de Matos Filho: Interferometric sensing of the tilt angle of a Gaussian beam. [Phys. Rev. Research 2, 033191](#) (2020).
- Flávio L. N. Santos, Vivien Perrin, François Jamet, Marcello Civelli, Pascal Simon, Maria C. O. Aguiar, Eduardo Miranda, and Marcelo J. Rozenberg: Odd-frequency superconductivity in dilute magnetic superconductors. [Phys. Rev. Research 2, 033229](#) (2020).
- Filomeno S. de Aguiar Júnior, Marcelo F. Santos, Carlos H. Monken, and Ado Jorio: Lifetime and polarization for real and virtual correlated Stokes-anti-Stokes Raman scattering in Diamond. [Phys. Rev. Research 2, 013084](#) (2020).
- A.L. de Paula Jr., E. Pereira, R. C. Drumond and M. C. O. Aguiar: Energy current manipulation and reversal of rectification in graded XXZ spin chains. [J. Phys.: Condens. Matter 32, 175403](#) (2020).
- L. A. S. Botelho and R. O. Vianna: Efficient quantum tomography of two-mode Wigner functions. [Eur. Phys. J. D 74, 42](#) (2020).
- P. L. Saldanha: Inconsistency of a Realistic Interpretation of Quantum Measurements: a Simple Example. [Braz. J. Phys. 50, 438](#).(2020).

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- 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).
- S. M. Oliveira, A. L. de Paula, Jr., and R. C. Drumond: Quantum Darwinism and non-Markovianity in a model of quantum harmonic oscillators. [Phys. Rev. A 100, 052110](#) (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).

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M. F. Fernandes, L. Neves. Ptychography of pure quantum states. [Sci Rep 9, 16066](#) (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).

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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).

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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).

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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 Lemini, and Reinaldo O. Vianna: Completely positive maps for reduced states of indistinguishable particles. [Phys. Rev. A 98, 052135](#) (2018).

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

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