Marcos Carvalho Brum de Oliveira

Academic Production

Publications

2020 Braz. J. of Physics (2021) 51:244-262. DOI:10.1007/s13538-020-00808-0, arXiv:1909.06232, J. C. A. Barata and M. Brum and V. Chabu and R. Correa da Silva.

Pure and Mixed States

- 2019 Symmetry, Integrability and Geometry: Methods and Applications 15 (2019), 060, arXiv:1708.00538, João C. A. Barata and Marcos Brum. Wavepackets on de Sitter spacetime
- Class. Quantum Grav 32 (2015) 015013, arXiv:1405.7916, Marcos Brum and Sergio E. Jorás.
 Hadamard state in Schwarzschild-de Sitter spacetime
- 2014 **Class. Quantum Grav 31 (2014) 025024**, arXiv:1307.0482, Marcos Brum and Klaus Fredenhagen.

'Vacuum-like' Hadamard states for quantum fields on curved spacetimes

2013 Class. Quantum Grav 30 (2013) 235035, arXiv:1302.3174, Kolja Them and Marcos Brum.

States of low energy in homogeneous and inhomogeneous expanding spacetimes

Mini-courses lectured

- 2016 Hadamard States in Quantum Field Theory on Curved Spacetimes, Institute of Physics, University of São Paulo.
 Brazil
- 2015 Introduction to Algebraic Quantum Field Theory on Curved Spacetimes, Brazilian Center for Research in Physics, The Ministry of Science, Technology, Innovation and Communications.
 Brazil