

Cronograma Workshop XX SeFis

Horário	Terça (02/09)	Horário	Quinta (04/09)
13:30 - 16:00	Sessão de posters		
		14:00 – 16:00	Apresentações Orais 2
16:00 – 16:30	Coffee Break	16:00 – 16:30	Coffee Break
16:30 – 18:00	Apresentações Orais 1	16:30 – 18:00	Apresentações Orais 3

Sessão de Posters (dia 02/09 das 13:30 – 16:00)

1 - Entropic limitations on fixed causal order

Matheus Capela (UFSCar), Kaumudibikash Goswami (The University of Hong Kong)*

2 - Introdução à Teoria das Cordas

Simão Pedro Vasconcelos (UFSCar), Fernando David Marmolejo Schmitt (UFSCar)*

3 - Photonic Molecule-Based Refractive Index Sensor with Microfluidic Integration Capability

Ellen Marianne Guimarães (DF, UFSCar), Paulo Henrique Dias Ferreira (DF, UFSCar), Luís Alberto Mijam Barêa (DEE, UFSCar)*

4 - Desenvolvimento e Aplicação de Biochar Magnético para Remoção de Nanoplásticos em Sistemas Aquáticos

Milena Cristiane Rocha da Silva (DF-UFSCar), Greici Gubert (IQSC-USP), Ronei Cardoso de Oliveira (DF-UFSCar), Adilson Jesus Aparecido de Oliveira (DF-UFSCar), Ernesto Chaves Pereira (DQ-UFSCar).*

5 - The Role of Stacking Pattern in the Energetic Properties of Two Bilayers

Lucas Morteau Ribeiro (Universidade Federal de São Carlos), Mateus Bazan Peters Querne (Universidade Federal de São Carlos), Juarez Lopes Ferreira Da Silva (Universidade de São Paulo), Matheus Paes Lima (Universidade Federal de São Carlos)*

6 - Tuning photon-photon correlations with state preparation and spatial configuration

washington pantoja da silva (universidade federal de são carlos), romain pierre marcel bachelard(universidade federal de são carlos)*

7 - Impedance Analysis of Memristors Connected with Resistor

Luiz Antonio Meneghetti Junior (Universidade Federal de São Carlos), Leonardo Kleber Castelano (Universidade Federal de São Carlos), Victor Lopez Richard (Universidade Federal de São Carlos).*

8 - Controlled Electromigration in Aluminum and Bismuth Microbridge Devices

Marcos Vasconcellos Mistura (Universidade Federal de São Carlos), Elijah Anertey Abbey (Universidade Federal de São Carlos), Caio Cesar Quaglio Gomes (Universidade Federal de São Carlos), Diego Jaramillo (KU Leuven), Sorin Melinte (KU Leuven), Stefan Marinkovic (Université de Liège) Alejandro Silhanek (Université de Liège) and Maycon Motta (Universidade Federal de São Carlos).*

9 - Superconducting and microstructural properties of thin films made of Pb-Sn alloy

Leonardo Pozzuto, Elijah Anertey Abbey, Caio Cesar Quaglio Gomes, and Maycon Motta (Departamento de Física, Universidade Federal de São Carlos, 13565-905 São Carlos, SP, Brazil)*

10 - Optical properties of two-dimensional magnetic heterostructures based on transition metal dichalcogenides and transition metal phosphorus trisulfides

Brenda Medeiros dos Santos -Federal University of São Carlos ; Henrique Craveiro D'Antonio - Federal University of São Carlos ; José Roberto de Toledo - Federal University of São Carlos; Alisson R. Cadore - National Center for Research in Materials (CNPEM); Ingrid D. Barcelos - National Center for Research in Materials (CNPEM); Yara Galvão Gobato - Federal University of São Carlos*

11 - Controlling Exciton and valley properties in monolayer MoSe₂ on Irradiated CrSBr

Rita de Cássia Barbosa (Federal University of São Carlos), José Roberto de Toledo(Federal University of São Carlos), Ingrid David Barcelos(Brazilian Synchrotron Light Laboratory), Alisson Ronieri Cadore(Brazilian Synchrotron Light Laboratory), Zdenek Sofer(University of Chemistry and Technology Prague), Shengqiang Zhou(Helmholtz-Zentrum Dresden-Rossendorf) and Yara Galvão Gobato(Federal University of São Carlos)*

Sessão de Apresentações Orais 1 (dia 02/09 das 16:30 – 18:00)

1 - Unraveling Dicke superradiant decay with separable coherent spin states

Pedro Rosario (Ufscar)*

2 - Enhanced gas sensing: High selectivity and room-temperature NO₂ detection with UV-assisted Zn-doped SnO₂ nanoparticles

João Vitor Almas (Universidade Federal de São Carlos - Departamento de Física/LM2N), Sandrine Bernardini (AixMarseille Université, IM2NP, CNRS (DETECT / MCI)), Ariadne Cristina Catto (Universidade Federal de São Carlos - Departamento de Física/LM2N, Universidade de São Paulo (EESC)/NACA), Luís Fernando da Silva (Universidade Federal de São Carlos - Departamento de Física/LM2N)*

3 - Low DC Magnetic Field Detection System Using Electronic Circuits and Sensing with Magnetoelectric Composite Materials

Leonardo Luis Lemes (UFSCar), Fabio Luis Zabotto (UFSCar)*

4 - Relationship between structural phase and ozone sensing performance of WO₃ nanostructures under UV light stimulation

João Victor Nascimento de Palma (UFSCar), Enzo Lucas Breancini Coelho Barros (UFSCar), Rafael Tavares Lima de Oliveira (UFSCar), Luís Fernando da Silva (UFSCar)

5 - Refractive index of a dense and cold atomic cloud

Felipe Carvalho Brambila (UFSCar), Philippe Wilhelm Courteille (USP), Raul Celistrino Teixeira (UFSCar)*

Sessão de Apresentações Orais 2 (dia 04/09 das 14:00 – 16:00)

1 – Diffusing Wave Spectroscopy in a Cold Atoms Cloud

Daniel Siqueira Coelho (Universidade Federal de São Carlos), Raul Celistrino Teixeira (Universidade Federal de São Carlos)*

2 - Synthesis and Characterization of WO₃/SnO₂ heterostructures for UV-Assisted Ozone Sensing.

Enzo L. B. C. Barros (UFSCar), Mayron S. Castro (UFSCar), João V. N. Palma (UFSCar), Luís F. da Silva (UFSCar)*

3 - Effect of Heat Treatment in a Reducing Atmosphere on the Microstructural and Ozone Sensing Properties of nanostructured ZnO

Mayron S. Castro (LM2N, Federal University of São Carlos, São Carlos-SP, Brazil), Valmor R. Mastelaro (IFSC, University of São Paulos, São Carlos-SP, Brazil) and Luís F. da Silva (LM2N, Federal University of São Carlos, São Carlos-SP, Brazil).*

4 - Geometrical control of the Coherence Time of Scattered Light in Cold Atoms

Ana Cipris(1,2), Mateus Biscassi(1,2), Juan Capella(1), Martial Morisse(1), Hani Naim(1), Hugo Sedlacek(1), Apoorav Singh Deo(1), Stephan Asselie(1), Raul Celistrino Teixeira(2), Romain Bachelard(2), Robin Kaiser(1), and Mathilde Hugbart(1)*

1 Université Côte d'Azur, CNRS, INPHYNI, France

2 Departamento de Física, Universidade Federal de São Carlos, São Carlos, SP, Brazil

5 - Simultaneous control of populations and coherence phase of open two-level quantum systems with a single pulse

Gustavo Fernandes da Costa (Universidade Federal de São Carlos), Emanuel Fernandes de Lima (Universidade Federal de São Carlos)*

Sessão de Apresentações Orais 3 (dia 04/09 das 16:30 – 18:00)

1 - A Loop Quantum Gravity Inspired Action for the Bosonic String and Emergent Dimensions at Large Scales

Deepak Vaid (NA), Lin Teixeira de Sousa (UFSCar)*

2 - Excitonic and Symmetry-Breaking Effects in 2D Janus Monochalcogenides

Mateus Bazan Peters Querne (Universidade Federal de São Carlos), Matheus Paes Lima (Universidade Federal de São Carlos)*

3 - Optimal control of the classical dynamics of an electron in the Morse-soft-Coulomb potential

Gabriel A. Amici (DF/UFSCar), Emanuel F. de Lima (DF/UFSCar)*

4 - 2D Anderson Localization of light in cold atoms

João Ferreira (UFSCar), Noel Araujo (USP), Robin Kaiser (Universite Cote D'azur), Alvaro Mitchell (Universite Cote D'azur), Romain Bachelard (UFSCar)*

5 - Bridging Text Mining and Quantum Simulations for the Design of 2D Monochalcogenide Materials

Mateus B. P. Querne (Federal Institute of Paraná, 80230-150, Curitiba, PR, Brazil), Marco A. M. T. Machado (Department of Physics, Federal University of São Carlos, 13565-905, São Carlos, SP, Brazil), Ronaldo C. Prati (Center of Mathematics, Computer Science, and Cognition, Federal University of ABC, Av. Dos Estados, 5001, 09210-580, Santo André, SP, Brazil), Natan M. Regis (Department of Physics, Federal University of São Carlos,*

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