

Workshop: "Mathematics and Applications"

CIMA-UÉvora and CIMPA-UCR are coorganizing the first hybrid Workshop "Mathematics and Applications" on January 25th-27th from 8am to 12 md. Its main objective is to offer an academic space for sharing ideas and to establish possible collaborations among researchers in CIMA and CIMPA.

Place: CIMPA-UCR, San Pedro de Montes de Oca, Costa Rica and also by Zoom

Algebra and Geometry

CIMA: Zé Carlos Oliveira, Fátima Pereira, Manuel Branco, Pedro Marques, Rui Albuquerque

CIMPA: Alberto Hernández, Ronald Zúñiga, Roberto Ulloa, Santiago Chaves

Logic and Topology

CIMA: Bruno Dinis

CIMPA: Oscar Zamora

Analysis and Probability

CIMA: Carlos Braumann, Elvira Zappale, Gonçalo Jacinto

CIMPA: Luis Guillermo Acuña, Adriana Sánchez

Differential Equation and Optimization

CIMA: Feliz Minhós, Marília Pires, Fernando Carapau

CIMPA: Fabio Sanchez

Statistics

CIMA: Ligia Henriques-Rodrigues, Jorge Santos, Russell Alpizar-Jara, Luis Grilo

CIMPA: Mario Villalobos, Maikol Solís, Oldemar Rodríguez

Workshop "Mathematics and Applications"

January 25th-27th, 2023

CR TIME: <https://udecr.zoom.us/j/87324467238?pwd=Q3VoWDZLcnpicUpROWVodTRwYUlrlUT09>

ID de reunión: 873 2446 7238 / Código de acceso: WORKSHOP

Wednesday 25th					Thursday 26th			Friday 27th			
8:00 a. m.	8:20 a. m.		Opening Ceremony			Manuel Baptista Branco	A/G	Numerical semigroups with fixed multiplicity and concentration		Carlos Alberto dos Santos Braumann	
8:20 a. m.	8:40 a. m.		Feliz Manuel Barrão Minhós	DE/O	Coupled systems of fully simply supported beam equations		Santiago Chaves Aguilar	A/G	Geometric Representation Theory		Gonçalo Jacinto
8:40 a. m.	9:00 a. m.		Fabio Sanchez Peña	DE/O	Adaptive Human Behavior in Mathematical Models		Rui Albuquerque	A/G	G_2 -twistor space applied to the study of vector fields		Ligia Henriques-Rodrigues
9:00 a. m.	9:20 a. m.		Fernando M. Lucas Carapau	DE/O	Numerical simulations of a third-grade fluid flow on a tube through a contraction		Pedro Macias Marques	A/G	Jordan type of local Artinian Gorenstein algebras		Mario Villalobos Arias
9:20 a. m.	9:40 a. m.		Marília da Conceição Valente de Oliveira Pires	DE/O	Artificial Stress Diffusion Applied to the Simulations of Oldroyd-B Fluid Flows		Alberto Hemández Alvarado	A/G	Minimum depth of factorization algebras		Oldemar Rodriguez Rojas
9:40 a. m.	10:00 a. m.	Questions / Answers									
10:00 a. m.	10:20 a. m.	Break									
10:20 a. m.	10:40 a. m.		Elvira Zappale	DE/O	Lower semicontinuity of non local supremal functionals		Bruno Miguel Antunes Dinis	L/T	Recent advances in proof mining		Maikol Solís Chacón
10:40 a. m.	11:00 a. m.		Fátima M. Filipe Pereira	A/G	Directional curvatures of compact convex sets in \mathbb{R}^n		Oscar Zamora Luna	L/T	The Maximum Number of Pentagons in a Planar Graph		Jorge M. Azevedo Santos
11:00 a. m.	11:20 a. m.		Adriana Sánchez Chavarria	A/P	Continuity problem of Lyapunov exponents		Ronald Zúñiga Rojas	A/G	Variations of Hodge Structures of Rank 3 k -Higgs Bundles and Moduli Spaces of Holomorphic Triples		Luis Grilo
11:20 a. m.	11:40 a. m.		Luis G. Acuña Valverde	A/P	Pendiente		Roberto Ulloa Esquivel	A/G	Multiplicities of modules		Russell Alpizar-Jara
11:40 a. m.	12:00 md	Questions / Answers				José Carlos Tiago de Oliveira	A/G	Maths, Philosophy, Anthropology - 3 ocean Sykes-Picot	Questions / Answers		
12:00 md	12:20 md				Questions / Answers				Closing Ceremony		



UNIVERSIDAD
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COSTA RICA

CIMPA

Centro de Investigación en
Matemática Pura y
Aplicada



UNIVERSIDADE
DE ÉVORA



Virtual by Zoom

On site (Also by Zoom)

DE/O: Differential Equations and Optimization
A/P: Analysis and Probability
A/G: Algebra and Geometry
L/T: Logic and Topology
S: Statistics