

Jornada IMTech – October 25th 2024

FME – 9:00-14:00

List of posters

The posters marked with T will give a short presentation of the poster in the Poster Blitz session.

P1- Maria Morella i Giménez (Master MAMME) – T

Analytic interpretation of stratification by the Bernstein-Sato polynomial.

Co-authors: Maria Alberich Carramiñana (UPC, IRI)

P2- María de Leyva Elola-Olaso (Master MAMME) - T

Stratification of the moduli space of plane branches with a single characteristic exponent

Co-authors: Maria Alberich Carramiñana (UPC, IRI)

P3- Roger Gómez López (PhD DMA) - T

Roots of the Bernstein-Sato polynomial for plane branch deformations

Co-authors: Guillem Blanco (KU Leuven)

P4- Marc Torrecillas Castelló (Master MAMME) - T

Bernstein-Sato Polynomials of ICIS.

Co-authors: J. Àlvarez (UPC, CRM), G. Blanco (KU Leuven)

P5- Alexandra Lillo Escuder (PhD DMA) – T

Elliptic Restricted Three-Body Problem: Study of n-ejection-collision orbits.

Co-authors: Mercè Ollé Torner (UPC-CRM), Óscar Rodríguez del Río (UPC).

P6- Rosa Maria Delicado Moll (Master MAMME) - T

Exploring the dynamics of UP and DOWN states in cortical networks undergoing short-term synaptic plasticity

Co-authors: G. Huguet (UPC, CRM), C. Vich (UIB)

P7- Mariona Fuchó Rius (MAMME) - T

Studying synergistic effects in critical slowing down for mushroom bifurcations

Co-authors: Smitha Maretvadakethope (Imperial College London), Rubén Pérez-Carrasco (Imperial College London), Àlex Haro (UB-CRM), Tomás Alarcón (ICREA-UAB-CRM), Josep Sardanyés (CRM)

P8- Pau Blanco (UPC, CIMNE, PhD DMA) – T

A mathematical and computational model for self-organized collective cancer invasion

Co-autors: Giancarlo Cicconofri, Guillermo Vilanova, Pablo Saez, Marino Arroyo.

P9-Sheraz Ahmed Khan (UPC, CIMNE, PhD DMA) - T

A posteriori error estimates for the finite element approximation of the convection-diffusion equation based on the variational multiscale concept

Co-authors: Ramon Codina, Hauke Gravenkamp

P10-Valentina Schastlivaia (UPC,IBEC, PhD DMA) - T

Incorporating Physics-informed Neural Networks into Physiologically Based Pharmacokinetic Models for nanoparticle biodistribution prediction

Co-authors: Z. Xie (IBEC), G. Battaglia (IBEC)

P11- Luz Alberola (biblioteca FME,UPC) – T

Research Library Services

Co-authors: Gemma Flaquer (UPC)

P12- Eduard Jové (UPC,CIMNE, PhD DMA)

Modelling the homeostasis of intestinal organoids

Co-authors: Marino Arroyo (UPC, CIMNE, IBEC)

P13 -Ahmad Kamal Khan (PhD)

Mechanics of Cellular Configuration: Insights into Contractility and Differential Adhesive Forces

Co-authors: José Muñoz (UPC, CIMNE)

P14- Alfonso Garmendia

PB-groupoids vs VB-Groupoids

Co-author: Francesco Cataffi