



Spanish+Polish Mathematical Meeting

RSME SEMA SCM PTM

Łódź, September 4-8, 2023

Plenary Speakers

JESÚS ÁLVAREZ LÓPEZ

Universidade de Santiago de Compostela

JOAN BOSCA PUIGREDON

Universidad de Zaragoza

NÚRIA FAGELLA RABIONET

Universitat de Barcelona

ŁUKASZ GRABOWSKI

Lancaster University

SŁAWOMIR KOŁODZIEJ

Uniwersytet Jagielloński

GUILLERMO LORENZO GÓMEZ

University of Texas at Austin

ANDRZEJ ŁUCZAK

Uniwersytet Łódzki

ANA MANCHO SÁNCHEZ

ICMAT Madrid

ALEKSY TRALLE

Uniwersytet Warmińsko-Mazurski

PIOTR ZWIERNIK

University of Toronto

Programme Committee

PERE ARA

Universitat Autònoma de Barcelona

LEOKADIA BIALAS-CIEŻ

Uniwersytet Jagielloński

MALGORZATA BOGDAN

Uniwersytet Wrocławski

TOMÁS CARABALLO

Universidad de Sevilla

FERNANDO CHAMIZO

Universidad Autónoma de Madrid

TERESA CRESPO

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EDUARDO GARCÍA RÍO

Universidade de Santiago de Compostela

GRZEGORZ GROMADZKI

Uniwersytet Gdański

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Instytut Matematyczny PAN

VÍCTOR PÉREZ-GARCÍA

Universidad de Castilla-La Mancha

RYSZARD RUDNICKI

Instytut Matematyczny PAN - Katowice

LOLA UGARTE

Universidad Pública de Navarra

PAWEŁ WALCZAK-chairman

Uniwersytet Łódzki

ANNA ZDUNIK

Uniwersytet Warszawski



es-pl.math.uni.lodz.pl



Lodz University of Technology
Faculty of Technical Physics, Information Technology
and Applied Mathematics



Ministry of Education and Science
Republic of Poland



Second announcement

The **Spanish-Polish Mathematical Meeting** (or shortly ES-PL) is a joint initiative of *Polskie Towarzystwo Matematyczne* (PTM = Polish Mathematical Society) and three Spanish societies: *Real Sociedad Matemática Española* (RSME), *Sociedad Española de Matemática Aplicada* (SEMA), and *Societat Catalana de Matemàtiques* (SCM).

The ES-PL will be hosted in Łódź by **Uniwersytet Łódzki** and **Politechnika Łódzka**. The event starts in the morning of September 4th (Monday) and ends in the afternoon of September 8th (Friday). All the information on the ES-PL is available at es-pl.math.uni.lodz.pl.

The organizers hope that your participation in the congress as well as your stay in Łódź will be an enjoyable and fruitful experience. Developing the cooperation between Spanish and Polish mathematicians is the main goal of the project.

Plenary lectures

Jesus Alvarez Lopez (Universidade de Santiago de Compostela), *Zeta invariants on Morse forms*

Joan Bosa Puigredon (Universidad de Zaragoza), *Classification of separable nuclear unital simple C^* -algebras. History and final results*

Nuria Fagella Rabionet (Universitat de Barcelona), *Structural stability in complex dynamics*

Łukasz Grabowski (Lancaster University), *Some applications of expansion in algebra and geometry*

Sławomir Kołodziej (Uniwersytet Jagielloński, Kraków), *Solutions of complex Hessian type equations*

Guillermo Lorenzo Gomez (University of Texas at Austin), *Imaging-informed patient-specific computational modeling of organ-confined prostate cancer*

Andrzej Łuczak (Uniwersytet Łódzki, Łódź), *Entropies of states in von Neumann algebras*

Ana Mancho Sanchez (Instituto Ciencias Matematicas, Madrid), *A journey from dynamics and geometry to the environment and climate*

Aleksy Tralle (Uniwersytet Warmińsko-Mazurski, Olsztyn), *Sasakian structures on Smale-Barden manifolds*

Piotr Zwiernik (University of Toronto), *Convex covariance matrix estimation and sparsity*

Thematic sections

Arithmetic Geometry and Number Theory (G. Banaszak, F. Bars, W. Gajda)

Complex Analysis and Function Spaces (Ł. Kosiński, M. Maestre, D. Seco, W. Zwonek)

Differential Geometry and Geometric Analysis (M. Czarnecki, M. Dominguez Vazquez, J. Jezierski, M. Sanchez Caja)

Discrete Dynamical Systems (L. Alsedà, N. Fagella, B. Karpińska, A. Zdunik)

Dynamics of Differential Equations (M. Capiński, A. Delshams, M. Guardia, P. Zgliczyński)

Geometric and Combinatorial Group Theory (Y. Antolin, M. Casals Ruiz, D. Osajda, E. Ventura)

Geometry and Topology of Manifolds (V. Muñoz, A. Viruel, K. Pawłowski, R. Wolak)

Hilbert Spaces Methods (E. Gallardo Gutierrez, J. Gale Gimeno, F. H. Szafraniec, M. Wojtylak, J. Stochel)

Mathematical Economics (C. Herves Beloso, E. Moreno Garcia, M. Kornafel, A. Wiszniewska-Matyszkiewicz)

Mathematics and Statistics in Machine Learning (E. Dominguez, A. Nowakowski)

Mathematics in Biology and Medicine (U. Foryś, J. Belmonte Beitia)

Operator Algebras (J. Bosa, S. Goldstein, B. Kwasniewski, F. Perera, T. Shulman)

Ordered Random Variables and Reliability Theory (J. Navarro, T. Rychlik)

Real Algebraic Geometry and Singularities (E. Garcia Barroso, J. Fernando Galvan, T. Krasinski, W. Kucharz)

Applications of Set Theory (A. Aviles Lopez, P. Borodulin-Nadziejka)

All sections will be arranged by section leaders. All participants are welcome to contribute by proposing a talk within the section of their research.

Also **Miscellanea** section (A. KomisarSKI, K. Niedziałowski) is planned for those not identifying with any of the above sections.

Abstracts of contributed talks (dedicated to the chosen section) should be sent to the main e-mail address es-pl@math.uni.lodz.pl using template available at the main webpage.

Venue

Uniwersytet Łódzki (4th, 6th, 7th, 8th of September)

Faculty of Management (Matejki 22/26)

Faculty of Mathematics and Computer Science (Banacha 22)

Politechnika Łódzka (5th of September)

Faculty of Technical Physics, Information Technology and Applied Mathematics
(Politechniki 8)

Faculty of Chemistry (Żeromskiego 114)

Accommodation

For our guests we reserve several possible accommodations with a good connection to the venues of the meeting. Prices given below are guaranteed up to the end of June. After these date reservations could be made in the price of the day. All the rates are in PLN per night (1 EUR is approx. 4,7 PLN).

Student dormitories: 111 PLN (single), 166 PLN (double) – reservation is made by organizers
address: Strajku Łódzkich Studentów 1981 r. 3/5

To obtain special rates in the hotels use the password „**Mathematical Meeting**”

** **B&B:** 215 PLN (single), 245 PLN (double), breakfast 45 PLN, parking 35 PLN
address: Kościuszki 16, phone: +48 42 2070040, e-mail: lodz@hotelbb.com

** **Ibis:** 275 PLN (single), 310 PLN (double), breakfast included, parking 30 PLN
address: Kościuszki 16, phone +48 42 6386700, e-mail: H3096@accor.com

** **Mazowiecki:** 150 PLN (single), 200 PLN (double), breakfast 38 PLN, parking free
address: 28 Pułku Strzelców Kaniowskich 53/57, phone +48 42 6374333, e-mail: recepcja@hotelmazowiecki.com

*** **Hampton by Hilton** (*up to May 31th*): 340 PLN (single), 395 PLN (double), breakfast included, parking 60 PLN
address: Piotrkowska 157, phone +48 42 2022022

*** **Qubus:** 300 PLN (single), 370 PLN (double), breakfast included, parking 30 PLN
address: Mickiewicza 7, phone +48 42 2755100, e-mail: lodz@qubushotel.com

*** **Tobacco:** 309 PLN (single), 389 PLN (double), breakfast included, parking 30 PLN
address: Kopernika 64, phone +48 42 2070707, e-mail: recepcja@hoteltobaco.pl

**** **Novotel:** 485 PLN (single), 520 PLN (double), breakfast included, parking 30 PLN
address: Piłsudskiego 11A, phone +48 42 2543900, e-mail: h7830@accor.com

**** **Puro:** price of the day – 20%, parking 70 PLN
address: Ogrodowa 16, phone +48 42 7159000, e-mail: lodz@purohotel.pl

**** **Vienna House andel's:** price of the day – 15%, parking 60 PLN
address: Ogrodowa 17, phone +48 42 2791000, e-mail: info.andels-lodz@viennahouse.com

Registration and fee

The registration starts on March 27th at es-pl.math.uni.lodz.pl/registration.php

The conference fee covers conference materials, access to all scientific sessions, lunches, coffee breaks, excursions, reception on September 4th and banquet on September 7th.

Early fee (*up to April 30th*) **1250 PLN** (or **270 EUR**)*

Regular fee (*up to June 30th*) **1400 PLN** (or **300 EUR**)*

Late fee (*from July 1st*) **1700 PLN** (or **350 EUR**)*

*discount of **100 PLN** (or **20 EUR**) for actual members of RSME, SEMA, SCM or PTM

Reduced fee (for PhD students) 700 PLN (or 150 EUR)

Accompanying person fee 450 PLN (or 100 EUR)

Bank accounts for transfers of the fee are in Santander Bank Polska
owner of accounts: Polskie Towarzystwo Matematyczne

For payment in PLN: PL 93 1500 1777 1217 7009 8779 0000

For payment in EUR: PL 48 1090 0088 0000 0001 5295 8454

SWIFT: WBKPPLPP

Important dates

March 27th, 2023: registration starts, fee = 270 EUR or 1250 PLN

April 30th, 2023: registration fee raises (to 300 EUR or 1400 PLN)

May 31st, 2023: deadline for applications for contributing talks

June 15th, 2023: 3rd announcement, preliminary schedule

June 30th, 2023: registration fee raises (to 350 EUR or 1700 PLN)

July 31st, 2023: final schedule

September 3rd, 2023: arrival day

September 4th-8th, 2023: scientific and social programme

September 9th, 2023: departure day

Contact information

e-mail: es-pl@math.uni.lodz.pl

website: es-pl.math.uni.lodz.pl

postal address: Spanish-Polish Mathematical Meeting, PL 90-238, Łódź, ul. Banacha 22