

Universidade de São Paulo
Instituto de Ciências Matemáticas e de Computação

ICM 2018 Satellite conference on Nonlinear Partial Differential Equations
23-27 Julho, 2018

Scientific and financial report
CDC - Conference Support Grant

São Carlos
Dezembro de 2018

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1. MAIN THEMES ADDRESSED

The conference took place in Fortaleza - Ceará - Brazil, from 23 to 27 July 2018. The scientific program had an excellent level with 33 plenary lectures (40 minutes each) and a poster session where 11 colleagues presented their work.

The lectures brought new developments on the area of partial differential equations distributed among the following themes:

- Elliptic partial differential equations;
- Parabolic partial differential equations;
- Free boundary problems;
- Fluid dynamics;
- Regularity theory for partial differential equations.

2. CONTRIBUTION TO THE DEVELOPMENT OF THE AREA AND FORMATION OF NEW RESEARCHERS IN BRAZIL

The conference was a great opportunity to the interaction among researchers, as well as graduate students, in the area of partial differential equations. Graduate students and young Ph.d.'s had the opportunity to present their work to a community of experts in the poster session.

The program of the meeting offered current and relevant topics in partial differential equations and also the general direction in which some themes are developing or changing. The excellent physical structure of Mareiro Hotel provided a pleasant environment for the exchange of scientific experiences among the participants.

The meeting received 57 mathematicians, 29 of them working outside Brazil. Among the accomplishments of this workshop we would like to highlight:

- New research themes and scientific collaboration among the participants;
- Dissemination of the research areas in partial differential equations carried out in Brazil;
- Contribution to the development of the research on partial differential equations carried out in Brazil.

3. BOOK OF ABSTRACTS AND WEBSITE OF THE CONFERENCE

The website of the conference is <http://pdes-icm2018.icmc.usp.br/icm2018/>, where you may find many information about the meeting, in particular the book of abstracts.

4. COMMITTEES

- Organizing Committee
 - Denis Bonheure (Université libre de Bruxelles/Belgium)
 - Ederson Moreira dos Santos (Universidade de São Paulo/Brazil)
 - Hugo Tavares (Universidade de Lisboa/Portugal)
 - Sergio Henrique Monari Soares (Universidade de São Paulo/Brazil)
- Scientific Committee
 - Djairo Guedes de Figueiredo (Universidade Estadual de Campinas/Brazil)
 - Maria Esteban (Université Paris - Dauphine/France)
 - Paul Rabinowitz (University of Wisconsin/United States)
 - Susanna Terracini (Politecnico di Torino/Italy)

5. LIST OF RESEARCHERS SUPPORTED BY THIS CDC GRANT

- (1) Hayk Mikayelyan (University of Nottingham Ningbo, China) - Plenary talk
- (2) César Lesdesma (Universidad Nacional de Trujillo, Peru) - Poster session

6. LIST OS SPEAKERS

- (1) Alberto Saldaña De Fuentes (Karlsruhe Institute for Technology, Germany)
- (2) Alessandro Zilio (Université Paris Diderot, France)
- (3) Alexander Quaas (Universidad Tecnica Federico Santa Maria, Chile)
- (4) Andrea Cianchi (Università di Firenze, Italy)
- (5) Angela Pistoia (Unisersità di Roma Sapienza, Italy)
- (6) Benedetta Noris (Université de Picardie Jules Verne, France)
- (7) Boyan Slavchev Sirakov (PUC-Rio de Janeiro, Brazil)
- (8) Carlos Tomei (PUC-Rio de Janeiro, Brazil)
- (9) David Arcoya (Universidad de Granada, Spain)
- (10) David Ruiz Aguilar (Universidad de Granada, Spain)
- (11) Diego Ribeiro Moreira (Universidade Federal do Ceará, Brazil)
- (12) Edgard A. Pimentel (PUC-Rio de Janeiro, Brazil)
- (13) Eduardo Teixeira (University of Central Florida, United States)
- (14) Eugenio Tommaso Massa (Universidade de São Paulo, Brazil)
- (15) Filippo Gazzola (Politecnico di Milano, Italy)
- (16) Filomena Pacella (Unisersità di Roma Sapienza, Italy)
- (17) Gianmaria Verzini (Politecnico di Milano, Italy)
- (18) Giovany de Jesus Malcher Figueiredo (Universidade de Brasília, Brazil)
- (19) Guy Buchitté (Université de Toulon, France)
- (20) Hayk Mikayelyan (University of Nottingham Ningbo, China)
- (21) Jean-Baptiste Casteras (Université libre de Bruxelles, Belgium)
- (22) João Marcos Bezerra do Ó (Universidade de Brasília, Brazil)
- (23) José Miguel Urbano (Universidade de Coimbra, Portugal)
- (24) Julián Fernández Bonder (Universidad de Buenos Aires, Argentina)
- (25) Juraj Foldes (University of Virginia, United States)
- (26) Liliane de Almeida Maia (Universidade de Brasília, Brazil)
- (27) Marcelo Fernandes Furtado (Universidade de Brasília, Brazil)
- (28) Massimo Grossi (Unisersità di Roma Sapienza, Italy)
- (29) Michal Kowalczyk (Universidad de Chile, Chile)
- (30) Monica Musso (Universidad de Chile, Chile)
- (31) Nicola Soave (Politecnico di Milano, Italy)
- (32) Simão Correia (Institut de Recherche Mathématique Avancée, France)
- (33) Susanna Terracini (Politecnico di Torino, Italy)

7. LIST OF RESEARCHERS THAT PRESENTED WORK IN THE POSTER SESSION

- (1) Adilson Presoto (Universidade Federal de São Carlos, Brazil)
- (2) César Lesdesma (Universidad Nacional de Trujillo, Peru)
- (3) Daniele Garrisi (University of Leeds, England)
- (4) David Stolnicki (PUC-Rio de Janeiro, Brazil)
- (5) Denilson Pereira (Universidade Federal de Campina Grande, Brazil)
- (6) Francisco Albuquerque (Universidade Estadual da Paraíba, Brazil)
- (7) Gustavo Madeira (Universidade Federal de São Carlos, Brazil)
- (8) Jefferson A. Dos Santos (Universidade Federal de Campina Grande, Brazil)
- (9) João Vítor da Silva (Universidade de Buenos Aires, Argentina)
- (10) Marcelo Amaral (Universidade da Integração Internacional da Lusofonia Afro-Brazileira, Brazil)
- (11) Vando Narciso (Universidade Estadual de Mato Grosso do Sul, Brazil)

8. LIST OF PARTICIPANTS

- (1) Adilson Eduardo Presoto (Brazil)
- (2) Alberto Saldaña (Germany)
- (3) Alessandro Zilio (France)
- (4) Alexander Quaas (Chile)
- (5) Andrea Cianchi (Italy)
- (6) Ángel Arroyo García (Finland)
- (7) Angela Pistoia (Italy)
- (8) Benedetta Noris (France)
- (9) Boyan Sirakov (Brazil)
- (10) Braulio Brendo Vasconcelos Maia (Brazil)
- (11) Carlos Tomei (Brazil)
- (12) César Enrique Torres Ledesma (Brazil)
- (13) Damião Júnio Gonçalves Araújo (Brazil)
- (14) Daniele Garrisi (England)
- (15) David Arcoya (Spain)
- (16) David Gonzalez Stolnicki (Brazil)
- (17) David Ruiz (Spain)
- (18) Denilson da Silva Pereira (Brazil)
- (19) Denis Bonheure (Belgium)
- (20) Diego Eloi Mesquita Gomes (Brazil)
- (21) Diego Ribeiro Moreira (Brazil)
- (22) Ederson Moreira dos Santos (Brazil)
- (23) Edgard A. Pimentel (Brazil)
- (24) Eduardo V. Teixeira (United States)
- (25) Eugenio Tommaso Massa (Brazil)
- (26) Flávio France Cruz (Brazil)
- (27) Filippo Gazzola (Italy)
- (28) Filomena Pacella (Italy)
- (29) Francisco Sibério Bezerra Albuquerque (Brazil)
- (30) Gianmaria Verzini (Italy)
- (31) Giovany Figueiredo (Brazil)
- (32) Gustavo Ferron Madeira (Brazil)
- (33) Guy Bouchitté (France)
- (34) Hayk Mikayelyan (China)
- (35) Hugo Tavares (Portugal)
- (36) Jean-Baptiste Casteras (Belgium)
- (37) Jefferson Abrantes dos Santos (Brazil)
- (38) Jiazheng Zhou (Brazil)
- (39) João Marcos Bezerra do Ó (Brazil)
- (40) João Vítor da Silva (Argentina)
- (41) José Ederson Melo Braga (Brazil)
- (42) José Miguel Urbano (Portugal)
- (43) Juraj Földes (United States)
- (44) Julián Fernández Bonder (Argentina)
- (45) Liliane de Almeida Maia (Brazil)
- (46) Marcelo Dário dos Santos Amaral (Brazil)

- (47) Marcelo Fernandes Furtado (Brazil)
- (48) Massimo Grossi (Italy)
- (49) Michal Kowalczyk (Chile)
- (50) Monica Musso (Chile)
- (51) Nicola Soave (Italy)
- (52) Raimundo Alves Leitão Júnior (Brazil)
- (53) Roberto Alonso Roque Nunez (Brazil)
- (54) Sergio H. Monari Soares (Brazil)
- (55) Simão Correia (France)
- (56) Susanna Terracini (Italy)
- (57) Vando Narciso (Brazil)

9. PROGRAM

	Mon 23	Tue 24	Wed 25	Thu 26	Fri 27
9:00-9:30	Registration / Opening				
Chair	Tomei	Teixeira		do Ó	Gazzola
9:30-10:10	Terracini	Gazzola		Bouchitté	Ribeiro Moreira
10:15-10:55	Cianchi	Pacella		Zilio	Kowalczyk
11:00-11:40	Urbano	Maia		Arcoya	do Ó
11:45-14:00	Lunch Discussions	Lunch Discussions	Lunch Discussions	Lunch Discussions	Lunch Discussions
Chair	Verzini	Cianchi		Grossi	
14:00-14:40	Tomei	Sirakov		Bonder	
14:45-15:25	Noris	Teixeira		Correia	
15:30-16:10	Furtado	Földes		Soave	
16:15-16:55	Coffee Break	Coffee Break Posters Albuquerque Amaral Costa da Silva	Coffee Break Posters dos Santos Garrisi Ledesma Madeira	Coffee Break Posters Narciso Pereira Presoto Stolnicki	
Chair	Pistoia	Musso	Bonder	Bouchitté	
17:00-17:40	Musso	Pistoia	Grossi	Verzini	
17:45-18:25	Ruiz	Casteras	Quaas	G. Figueiredo	
18:30-19:10	Mikayelyan	Pimentel	Massa	Saldaña	
20:00		Social Dinner			