

## XXVII CEDYA/XVII CMA PROGRAM JULY 2022

		MONDAY	TUESDAY	THURSDAY	FRIDAY
		18th July	19th July	21st July	22nd July
08:30 - 09:30	REGISTRATION HALL (Building B)	PLENARY TALK: Emmanuil Georgoulis AULA 8		PLENARY TALK: Volker Mehrmann AULA 8	
09:30 - 10:00	OPENING SESSION SALON DE ACTOS (Building A)	MS01 AULA 8 MS02 AULA 14 MS05 AULA 6 MS06 SEM 7 MS08 AULA 3 MS16 SEM 8 P1 AULA 4		MS01 AULA 8 MS02 AULA 14 MS03 AULA 4 MS04 SEM 9 MS07 AULA 5 MS17 SEM 8 P2 SEM 7 P6 AULA 6	
10:00 - 11:00	PLENARY TALK: Julia Novo SALON DE ACTOS (Building A)				
11:00 - 11:30 COFFEE BREAK (Building B)					
11:30 - 13:30		MS01 AULA 8 MS03 AULA 14 MS11 SEM 7 MS14 SEM 8 P3 SEM 9	MS01 AULA 8 MS02 AULA 14 MS05 AULA 6 MS06 SEM 7 MS08 AULA 3 MS09 SEM 8 P1 AULA 4 P3 SEM 9	MS01 AULA 8 MS02 AULA 14 MS03 AULA 4 MS04 SEM 9 MS07 AULA 5 MS17 SEM 8 P2 SEM 7 P6 AULA 6	MS01 AULA 8 MS02 AULA 14 MS12 AULA 4 MS13 SEM 9 MS18 AULA 5 P5 SEM 7 P2 SEM 8
13:30 - 16:00 LUNCH (Garden Fussion Restaurant)				FAREWELL COCKTAIL (Hall. Building B)	
16:00 - 17:00	PLENARY TALK: Carmen Rodrigo AULA 8	PLENARY TALK: Roberto Barrio AULA 8		PLENARY TALK: Giovanni Russo AULA 8	
17:00 - 17:30 COFFEE BREAK and POSTER SESSIONS (Building B)					
17:30-19:30		MS01 AULA 8 MS03 AULA 14 MS10 AULA 3 MS11 SEM 7 MS16 SEM 8 P3 SEM 9	MS01 AULA 8 MS15 AULA 14 MS05 AULA 6 MS06 SEM 7 MS08 AULA 3 MS09 SEM 8 P1 AULA 4 P3 SEM 9	MS01 AULA 8 MS10 AULA 14 MS03 AULA 4 MS04 SEM 9 P4 AULA 5 P2 SEM 7 P6 SEM 8	

WEDNESDAY AULA MAGNA Paraninfo Building	
20th July	
08:30 - 10:30	TALKS AWARD WINNERS
10:30 - 11:00	COFFEE BREAK
11:00 - 11:30	AWARDS CEREMONY
11:30 - 12:30	PLENARY TALK: Albert Cohen
12:30 - 14:00	SeMA ASSEMBLY
14:00 - 16:00	LUNCH (Tres Mares Restaurant)
18:30	ZARAGOZA TOUR
20:30	CONFERENCE DINNER (Aura Restaurant)

- MS01 Dynamical Systems: theory and applications
- MS02 Numerical approximation of hyperbolic PDE systems and their applications
- MS03 PDE models in Biology
- MS04 Optimal Control and Inverse Problems
- MS05 Iterative Processes and Non Linear Equations
- MS06 ALAMA: Linear Algebra, Matrix Analysis and Applications
- MS07 New trends on the 1-Laplacian
- MS08 Progress on time integrators for ODE
- MS09 Orthogonal Polynomials, Special Functions and Approximation Theory
- MS10 Success Stories between Academia and Industry at CITMaga
- MS11 Reduced Order Modeling applied to architecture and engineering
- MS12 Numerical methods for models in Partial Differential Equations
- MS13 Efficient solvers for large sparse linear systems
- MS14 Nonlinear Analysis in Partial Differential Equations
- MS15 Industrial Mathematics at the Centre de Recerca Matemàtica
- MS16 Partial Differential Equations and Homogenization
- MS17 Mathematics in Industry and Organizations
- MS18 Geometric flows and PDEs in Geometry

- P1 Partial Differential Equations
- P2 Dynamical systems - Ordinary Differential Equations
- P3 Numerical Analysis and Simulation
- P4 Numerical Linear Algebra
- P5 Optimal Control - Inverse Problems
- P6 Applied Mathematics to Industry, Social Sciences and Biology
- P7 Mathematical Education
- P8 Other: Scientific Calculus, Approximation Theory, Discrete Mathematics .

**Faculty of Medicine (Monday, Tuesday, Thursday, Friday):**  
SALON DE ACTOS (Building A)  
AULAS 4, 5, 6, 8 (1st floor) and 14 (2nd floor) (Building B)  
SEMINARIOS 7, 8 and 9 (1st floor) (Building B)

**Paraninfo Building (Wednesday):**  
AULA MAGNA

# XXVII CEDYA/XVII CMA 2022

## JULY 18TH-22TH. MORNING SESSION 1/2

MONDAY FACULTY OF MEDICINE	TUESDAY FACULTY OF MEDICINE BUILDING B	WEDNESDAY	THURSDAY FACULTY OF MEDICINE BUILDING B	FRIDAY FACULTY OF MEDICINE BUILDING B
<p><b>8:30am-9:30am</b> Hall, Building B <b>REGISTRATION</b></p>	<p><b>8:30am-9:30am</b> Aula 8 <b>PLENARY TALK: Emmanuil Georgoulis</b></p>	<p><b>PARANINFO AULA MAGNA</b></p> <p style="color: red; font-size: 2em;">↓</p>	<p><b>8:30am-9:30am</b> Aula 8 <b>PLENARY TALK: Volker Mehrmann*</b></p>	<p><b>8:30am-9:30am</b> Aula 8 <b>PLENARY TALK: Francisco Periago</b></p>
<p><b>9:30am-10:00am</b> Salón Actos, Bldg A <b>OPENING SESSION</b></p>	<p><b>9:30am-11:00am</b> <b>MS01 Dynamical Systems</b> Aula 8 9:30-10:00 — M. Giralt 10:00-10:30 — A. Marqués-Lobeiras 10:30-11:00 — R. Moreno <b>MS02 Num. Approximation of Hyperbolic PDE</b> Aula 14 9:30-10:00 — S. Santos 10:00-10:30 — P. Mulet 10:30-11:00 — S. Amat <b>MS05 Iterative Processes...</b> Aula 6 9:30-10:00 — F. Chicharro 10:00-10:30 — J.R. Torregrosa 10:30-11:00 — A. Cordero <b>MS06 ALAMA</b> Seminario 7 9:30-10:00 — R. Viaña 10:00-10:30 — M. Carriegos 10:30-11:00 — F. De Terán <b>MS08 Progress on time...</b> Aula 5 9:30-10:00 — G. Izzo 10:00-10:30 — I. Higuera 10:30-11:00 — D. Conte* <b>MS16 PDE and Hom...</b> Seminario 8 9:30-10:00 — F. Maestre 10:00-10:30 — F. Ortegón</p>	<p><b>8:30am-10:30am</b> <b>TALK AWARD WINNERS</b> 8:30- 9:00 —M. Jornet 9:00- 9:30 — D. Gómez-Castro 9:30-10:00 — A. Gasull 10:00-10:30 — E. Pimentel</p>	<p><b>9:30am-11:00am</b> <b>MS01 Dynamical Systems</b> Aula 8 9:30-10:00 — V. Lanchares 10:00-10:30 — M. Esteban 10:30-11:00 — J. Penalva <b>MS02 Num. appr. hyp. PDE...</b> Aula 14 9:30-10:00 — V. González Tabernero* 10:00-10:30 — A. Hidalgo* 10:30-11:00 — R. Verbiest* <b>MS03 PDE models in Biology</b> Aula 4 9:30-10:00 — J.I. Tello* 10:00-10:30 — M. Negreanu* 10:30-11:00 — M.A. Rodríguez-Bellido <b>MS04 Optimal Control...</b> Seminario 9 9:30-10:00 — L.A. Fernández 10:00-10:30 — J. Apraiz 10:30-11:00 — U. Biccari <b>MS07 New trends on the 1-Lap.</b> Aula 5 9:30-10:00 — J.M. Mazón 10:00-10:30 — M. Solera* 10:30-11:00 — S. Moll <b>MS17 Maths in Industry...</b> Seminario 8 9:30-10:00 — F. Aràndiga 10:00-10:30 — A. Baeza</p>	<p><b>9:30am-11:00am</b> <b>MS01 Dynamical Systems</b> Aula 8 9:30-10:00 — I.A. García 10:00-10:30 — J. Giné 10:30-11:00 — D. Rojas <b>MS02 Num. appr. hyp. PDE...</b> Aula 14 9:30-10:00 — E. Guerrero 10:00-10:30 — L. del Río Martín 10:30-11:00 — J. Garrés <b>MS12 Num. methods for models...</b> Aula 4 9:30-10:00 — I. Alonso 10:00-10:30 — M. Colera 10:30-11:00 — J.C. Jorge <b>MS13 Efficient solvers...</b> Seminario 9 9:30-10:00 — A. Budisa 10:00-10:30 — L. Zikatanov 10:30-11:00 — P. Salinas <b>MS18 Geometric flows...</b> Aula 5 9:30-10:00 — M. García-Fernández* 10:00-10:30 — R.M. Arroyo* 10:30-11:00 — C. Shahbazi*</p>
<p><b>10:00am-11:00am</b> Salón Actos, Bldg A <b>PLENARY TALK: Julia Novo</b></p>	<p><b>11:00am-11:30am</b> Aula 4 9:30-10:00 — J. Padial 10:00-10:30 — M. Martínez-Teruel 10:30-11:00 — A. J. Martínez-Aparicio</p>	<p><b>10:30am-11:00am: Coffee Break</b> <b>Sala 13 Heroínas. Paraninfo</b></p>	<p><b>P2 Dyn. systems &amp; ODE</b> Seminario 7 9:30-10:00 — J. Campos 10:00-10:30 — A.C. Casal</p>	<p><b>P5 Optimal Control...</b> Seminario 7 9:30-10:00 — I. Marín Gayte 10:00-10:30 — V. Selgas 10:30-11:00 — I. Gayte</p>
<p><b>11:00am-11:30am: Coffee Break</b> <b>Building B</b></p>	<p><b>11:00am-11:30am: Coffee Break</b> <b>Building B</b></p>	<p><b>11:00am-11:30am</b> <b>AWARDS CEREMONY</b></p>	<p><b>P6 Applied Maths...</b> Aula 6 9:30-10:00 — F. Font* 10:00-10:30 — M.C. Martí 10:30-11:00 — N. Ortega</p>	<p><b>P6 Applied Maths...</b> Seminario 8 9:30-10:00 — M. Baamonde-Seoane 10:00-10:30 — J. Ráfales</p>
		<p><b>11:30am-12:30am</b> <b>PLENARY TALK: Albert Cohen</b></p>	<p><b>11:00am-11:30am: Coffee Break</b> <b>Building B</b></p>	<p><b>P8 Other...</b> Aula 6 9:30-10:00 — L. Floría 10:00-10:30 — S. López-Ureña</p>
		<p><b>12:30pm-14:00pm</b> SeMA ASSEMBLY</p>		<p><b>11:00am-11:30am: Coffee Break</b> <b>Building B</b></p>
		<p><b>14:30pm-16:00pm: Lunch</b> <b>Restaurante Tres Mares</b></p>		
		<p><b>18:30pm-:</b> Zaragoza Tour</p>		
		<p><b>20:30pm-:</b> Conference Dinner <b>Restaurante Aura</b></p>		

# XXVII CEDYA/XVII CMA 2022

JULY 18TH-22TH MORNING SESSION 2/2

MONDAY FACULTY OF MEDICINE BUILDING B	TUESDAY FACULTY OF MEDICINE BUILDING B	WEDNESDAY	THURSDAY FACULTY OF MEDICINE BUILDING B	FRIDAY FACULTY OF MEDICINE BUILDING B
<p><b>11:30am-13:30pm</b></p> <p><b>MS01 Dynamical Systems</b> Aula 8 11:30-12:00 — M. Corbera* 12:00-12:30 — J. Paradela 12:30-13:00 — E. Tresaco</p> <p><b>MS03 PDE Models in Biology</b> Aula 14 11:30-12:00 — J.R. Rodríguez-Galván 12:00-12:30 — D. Acosta-Soba 12:30-13:00 — A. Logioti*</p> <p><b>MS11 Reduced Order...</b> Seminario 7 11:30-12:00 — M. Gómez 12:00-12:30 — D. Franco 12:30-13:00 — E. Delgado 13:00-13:30 — B. Koc</p> <p><b>MS14 Nonlinear Analysis</b> Seminario 8 11:30-12:00 — P.J. Martínez-Aparicio 12:00-12:30 — T. Leonori 12:30-13:00 — R. López-Soriano 13:00-13:30 — E. Colorado</p> <p><b>P3 Numerical Analysis..</b> Seminario 9 11:30-12:00 — J.C. Trillo 12:00-12:30 — I. Jiménez 12:30-13:00 — D.F. Yáñez 13:00-13:30 — S. Gómes</p> <p><b>13:45pm: LUNCH</b> Rest. Garden</p>	<p><b>11:30am-13:30pm</b></p> <p><b>MS01 Dynamical Systems</b> Aula 8 11:30-12:00 — E. Barrabés 12:00-12:30 — M. Ollé* 12:30-13:00 — Ó. Rodríguez 13:00-13:30 — D. Pérez-Palau</p> <p><b>MS02 Num. appr. hyp. PDE...</b> Aula 14 11:30-12:00 — C. Caballero 12:00-12:30 — M. Ciallella 12:30-13:00 — I. Gómez 13:00-13:30 — E. Pimentel</p> <p><b>MS05 Iterative Processes...</b> Aula 6 11:30-11:55 — S. Amat 11:55-12:20 — N. Romero 12:20-12:45 — N. Expósito 12:45-13:10 — P. Triguero-Navarro 13:10-13:30 — V. Galilea</p> <p><b>MS06 ALAMA</b> Seminario 7 11:30-12:00 — H. Orea 12:00-12:30 — A. Marco 12:30-13:00 — E. Mainar 13:00-13:30 — J. Baz*</p> <p><b>MS08 Progress on time...</b> Aula 5 11:30-12:00 — L. Portero 12:00-12:30 — J.I. Montijano 12:30-13:00 — E. Ramírez 13:00-13:30 — I. Alonso</p> <p><b>MS09 Orthogonal Pol...</b> Seminario 8 11:30-12:00 — M.J. Cantero 12:00-12:30 — J.F. Mañas 12:30-13:00 — F. Marcellán 13:00-13:30 — M. Marriaga</p> <p><b>P1 PDE</b> Aula 4 11:30-12:00 — J. Cueto 12:00-12:30 — M. Braack 12:30-13:00 — C. Vetro* 13:00-13:30 — R. Fiñana</p> <p><b>P3 Numerical Analysis..</b> Seminario 9 11:30-12:00 — N. Bazarra 12:00-12:30 — J. Enríquez 12:30-13:00 — V. Domínguez 13:00-13:30 — J. Morón</p> <p><b>13:45pm: LUNCH</b> Rest. Garden</p>	<p><b>SPECIAL DAY. SEE MORNING 1/2</b></p>	<p><b>11:30am-13:30pm</b></p> <p><b>MS01 Dynamical Systems</b> Aula 8 11:30-12:00 — S. Pérez-González 12:00-12:30 — E. Ponce 12:30-13:00 — J. Ros 13:00-13:30 — A.E. Teruel</p> <p><b>MS02 Num. appr. hyp. PDE...</b> Aula 14 11:30-12:00 — E. Fernández Nieto* 12:00-12:30 — L. Bonaventura* 12:30-13:00 — L. Martaud* 13:00-13:30 — S. Busto*</p> <p><b>MS03 PDE models in Biology</b> Aula 4 11:30-12:00 — M. Saad* 12:00-12:30 — J.V. Gutiérrez-Santacreu 12:30-13:00 — D.A. Rueda-Gómez 13:00-13:30 — E. Villamizar-Roa</p> <p><b>MS04 Optimal Control...</b> Seminario 9 11:30-12:00 — P. Pedregal 12:00-12:30 — J.C. Bellido 12:30-13:00 — E. Aranda 13:00-13:30 — R. Ortigosa</p> <p><b>MS07 New trends on the 1-Lap.</b> Aula 5 11:30-12:00 — W. Górny* 12:00-12:30 — F. Della Pietra 12:30-13:00 — J.C. Sabina de Lis 13:00-13:30 — S. Segura de León</p> <p><b>MS17 Maths in Industry...</b> Seminario 8 11:30-12:00 — J.M. Camacho 12:00-12:30 — C. Mo* 12:30-13:00 — C. Gorria 13:00-13:30 — C. Sánchez-Linares</p> <p><b>P2 Dyn. systems &amp; ODE</b> Seminario 7 11:30-12:00 — A. Slavík 12:00-12:30 — C. Hermoso 12:30-13:00 — J. Dueñas 13:00-13:30 — F. Mokhtari</p> <p><b>P6 Applied Maths...</b> Aula 6 11:30-12:00 — A. Dena 12:00-12:30 — M.V. Redondo 12:30-13:00 — M.C. Navarro* 13:00-13:30 — J.A. Galadí</p> <p><b>13:45pm: LUNCH</b> Rest. Garden</p>	<p><b>11:30am-13:30pm</b></p> <p><b>MS01 Dynamical Systems</b> Aula 8 11:30-12:00 — S. Ibañez 12:00-12:30 — S. Maza 12:30-13:00 — J. Palacián</p> <p><b>MS02 Num. appr. hyp. PDE...</b> Aula 14 11:30-12:00 — T. Morales 12:00-12:30 — F. Dhauouadi</p> <p><b>MS12 Num. methods for models...</b> Aula 4 11:30-12:00 — D. Pacios* 12:00-12:30 — M. González 12:30-13:00 — J.L. Gracia</p> <p><b>MS13 Efficient solvers...</b> Seminario 9 11:30-12:00 — J. Adler 12:00-12:30 — Á. Pé de la Riva 12:30-13:00 — J. Zaratiegui</p> <p><b>MS18 Geometric flows...</b> Aula 5 11:30-12:00 — D. Angella* 12:00-12:30 — J.A. Gálvez*</p> <p><b>P2 Dyn. systems &amp; ODE</b> Seminario 8 11:30-12:00 — R. Donat 12:00-12:30 — L. Shaw</p> <p><b>P5 Optimal Control...</b> Seminario 7 11:30-12:00 — M. Pena 12:00-12:30 — M.L. Rapún</p> <p><b>13:30pm-: Farewell Cocktail</b></p>

# XXVII CEDYA / XVII CMA 2022

JULY 18TH-22TH **EVENING SESSION 1/1**

MONDAY FACULTY OF MEDICINE BUILDING B	TUESDAY FACULTY OF MEDICINE BUILDING B	WEDNESDAY	THURSDAY FACULTY OF MEDICINE BUILDING B	FRIDAY
<b>16:00pm-17:00pm</b> <b>Aula 8</b> <b>PLENARY TALK: Carmen Rodrigo</b>	<b>16:00pm-17:00pm</b> <b>Aula 8</b> <b>PLENARY TALK: Roberto Barrio</b>		<b>16:00pm-17:00pm</b> <b>Aula 8</b> <b>PLENARY TALK: Giovanni Russo*</b>	
<b>17:00am-17:30am: Coffee Break</b> <b>Building B</b>	<b>17:00am-17:30am: Coffee Break</b> <b>Building B</b>		<b>17:00am-17:30am: Coffee Break</b> <b>Building B</b>	
<b>17:00pm-17:30pm: Posters</b> <b>1st Floor</b>	<b>17:00pm-17:30pm: Posters</b> <b>1st Floor</b>		<b>17:00pm-17:30pm: Posters</b> <b>1st Floor</b>	
<b>17:30pm-19:30pm</b> <b>MS01 Dynamical Systems</b> <b>Aula 8</b> 17:30-18:00 — M. Barcelona 18:00-18:30 — B. Nicolás 18:30-19:00 — I. Cavallari  <b>MS03 PDE Models in Biology</b> <b>Aula 14</b> 17:30-18:00 — A. Suárez 18:00-18:30 — M. Molina-Becerra 18:30-19:00 — J.D. Gutiérrez de Alba  <b>MS10 Success Stories...</b> <b>Aula 4</b> 17:30-18:00 — D. Gómez 18:00-18:30 — E. Martín* 18:30-19:00 — J. Rodríguez 19:00-19:30 — S. Recondo* <b>MS11 Reduced order Mod.</b> <b>Seminario 7</b> 17:30-18:00 — T. Chacón 18:00-18:30 — A. Falcó 18:30-19:00 — M. Azaiez  <b>MS16 PDE &amp; Homog.</b> <b>Seminario 8</b> 17:30-18:00 — J. Casado-Díaz 18:00-18:30 — M. Luna 18:30-19:00 — J. Carmona	<b>17:30pm-19:30pm</b> <b>MS01 Dynamical Systems</b> <b>Aula 8</b> 17:30-18:00 — M. Jorba-Cusó 18:00-18:30 — A. Lozano 18:30-19:00 — M. Orieux* <b>MS05 Iterative Processes...</b> <b>Aula 6</b> 17:30-18:00 — J.M. Gutiérrez 18:00-18:30 — V. Álvarez 18:30-19:00 — J.C. Yakoubsohn 19:00-19:30 — J. Heintz* <b>MS06 ALAMA...</b> <b>Seminario 7</b> 17:30-18:00 — F. Martínez-Dopico 18:00-18:30 — J. Moro 18:30-19:00 — D. Ginestar <b>MS08 Progress on time...</b> <b>Aula 5</b> 17:30-18:00 — S.Pérez 18:00-18:30 — M.P. Calvo 18:30-19:00 — T. Roldán  <b>MS09 Orthogonal Pol...</b> <b>Seminario 8</b> 17:30-18:00 — L. Fernández 18:00-18:30 — J. Minguez 18:30-19:00 — P. Palacios 19:00-19:30 — J. Segura <b>MS15 Ind. Math. at CRM</b> <b>Aula 14</b> 17:30-18:00 — T.G. Myers 18:00-18:30 — J. Baró* 18:30-19:00 — J. Sardanyés 19:00-19:30 — T. Alarcón*  <b>P1 PDE</b> <b>Aula 4</b> 17:30-18:00 — J. Calvo 18:00-18:30 — F.J. Fernández 18:30-19:00 — E. Muñoz-Hernández 19:00-19:30 — A.P. Márquez*  <b>P3 Numerical Analysis...</b> <b>Seminario 9</b> 17:30-18:00 — A.M. Vargas 18:00-18:30 — Á.J. Omella 18:30-19:00 — J. Ruiz 19:00-19:30 — V. Laliena		<b>17:30pm-19:30pm</b> <b>MS01 Dynamical Systems</b> <b>Aula 8</b> 17:30-18:00 — L. Pérez 18:00-18:30 — J. Jover 18:30-19:00 — S. Serrano  <b>MS03 PDE models in Biology</b> <b>Aula 4</b> 17:30-18:00 — F. Guillén-González 18:00-18:30 — G. Viglialoro 18:30-19:00 — S. Frassu 19:00-19:30 — G. Tierra* <b>MS04 Optimal Control...</b> <b>Seminario 9</b> 17:30-18:00 — C. Castro 18:00-18:30 — S. Zamorano 18:30-19:00 — I. Yousept 19:00-19:30 — C. Esteve-Yagüe <b>MS10 Success Stories...</b> <b>Aula 14</b> 17:30-18:00 — M. Cremades 18:00-18:30 — U. Morelli 18:30-19:00 — M. Shabani 19:00-19:30 — P. Salgado  <b>P2 Dyn. systems &amp; ODE</b> <b>Seminario 7</b> 17:30-18:00 — M.I. García-Planas* 18:00-18:30 — J. García Fuentes 18:30-19:00 — R. Caballero 19:00-19:30 — P. Stehlík  <b>P4 Num. Linear Algebra</b> <b>Aula 5</b> 17:30-18:00 — J.J. Martínez  <b>P6 Applied Math...</b> <b>Seminario 8</b> 17:30-18:00 — J.M. Pablos-Marín 18:00-18:30 — F. Coltraro 18:30-19:00 — M. López de Castro 19:00-19:30 — R. González-Albaladejo*	
		<b>SOCIAL ACTIVITIES</b>		