

**Monday 24**

**Aula Magna**

09:00	<b>Opening</b>
Chairperson: <b>Jesús Sánchez-Dehesa</b>	
09:30	<b>Francisco Marcellán</b> <i>Sharing orthogonal polynomials with Pascal Maroni and André Ronveaux</i>
10:30	<b>Rabia Aktaş Karaman</b> <i>Fourier Transforms of Multivariate Orthogonal Polynomials</i>
11:30	<b>Coffee break</b>

# Monday 24

## Room A

Chairperson: **Antonia M. Delgado**

12:00 **Yuan Xu**  
*Orthogonal polynomials on domains of revolution*

12:30 **Ruymán Cruz-Barroso**  
*Orthogonal Laurent polynomials of two real variables*

13:30 **Lunch**

Chairperson: **Yuan Xu**

15:30 **Herbert Dueñas Ruiz**  
*Classical orthogonal polynomials. One variable vs two variables*

16:00 **Wolter Groenevelt**  
*Multivariate  $q$ -Racah polynomials as stochastic duality functions*

16:30 **Gabriel Arturo Pulido Combita**  
*Zernike Sobolev type Polynomials. Quadrature and Interpolation.*

17:00 **Marlon Josué Recarte Castellanos**  
*Approximation on the unit ball via gradients or Laplacians*

# Monday 24

## Room B

Chairperson: **Judit Mínguez-Ceniceros**

12:00	<b>Óscar Ciaurri</b> <i>Special functions in discrete Harmonic Analysis</i>
12:30	<b>Nesrin Yousfi</b> <i><math>L^2</math> Inequality for a Modified Struve Transform</i>
13:30	<b>Lunch</b>
Chairperson: <b>Ester Pérez-Sinusía</b>	
15:30	<b>Bernhard Beckermann</b> <i>Rational approximation of Markov functions</i>
16:00	<b>Luc Vinet</b> <i>Meta Algebras and the Extension of the Askey Tableau to Biorthogonal Rational Functions</i>
16:30	<b>Dan Dai</b> <i>Asymptotics and total integrals of the <math>P_1^2</math> tritronquée solution and its Hamiltonian</i>
17:00	<b>Yong-Kum Cho</b> <i>Positivity of Hankel Transforms</i>

# Monday 24

## Room C

Chairperson: **Ana Foulquié Moreno**

12:00	<b>Jorge Arvesú</b> <i>On the construction of two orthogonal families</i>
12:30	<b>Hélder Lima</b> <i>Bidiagonal matrix factorisations associated with symmetric multiple orthogonal polynomials and lattice paths</i>
13:30	<b>Lunch</b>
Chairperson: <b>Jorge Arvesú</b>	
15:30	<b>Manuel Mañas Baena</b> <i>Banded total positive matrices and multiple orthogonality: Favard, Gauss quadrature and normality</i>
16:00	<b>Rafael Morales</b> <i>Multiple Orthogonal Polynomials and Finite Free Convolution</i>
16:30	<b>Thomas Wolfs</b> <i>Multiple orthogonal polynomials with hypergeometric moment generating functions</i>
17:00	<b>Juan Díaz</b> <i>Multiple Orthogonal Type I Polynomials on the Askey Scheme</i>

## Poster Session

17:30	<b>Juan C. García-Ardila</b> <i>A note on Laguerre truncated polynomials and quadrature formula</i>
	<b>David Lara Velasco</b> <i>Bernstein-type Operators based on the Jacobi inner product</i>
	<b>Chenhao Lu</b> <i>Eigenvalue Rigidity of the Jacobi Unitary Ensembles</i>
	<b>Juan F. Mañas-Mañas</b> <i>Symbolic computation of the coefficients of the second-order difference equation for general Sobolev-type orthogonal polynomials</i>
	<b>Ben Mitchell</b> <i>Bessel Function Solutions of the Fifth Painlevé Equation</i>
	<b>Cristina Rodríguez-Perales</b> <i>Asymptotic Zero Behavior of some Meijer G-Functions</i>
	<b>José Luis Ruiz Benito</b> <i>A new approach to zeros of multivariate orthogonal polynomials</i>
	<b>Juan Antonio Villegas</b> <i>Generalization of the Multiple Orthogonality to the Bivariate Case</i>
	<b>Xiaolu Yue</b> <i>On Laurent biorthogonal polynomials and Painlevé-type equations</i>

**Tuesday 25**

**Aula Magna**

Chairperson: **Teresa E. Pérez**

09:00	<b>Annie Cuyt</b> <i>On orthogonality, rational approximation, quadrature and exponential analysis, in one and more variables</i>
10:00	<b>Aron Wennman</b> <i>Asymptotics and zeros of orthogonal polynomials in the plane</i>
11:00	<b>Coffee break – Conference Photo</b>

## Tuesday 25

### Room A

Chairperson: **Bernhard Beckermann**

11:30	<b>Chelo Ferreira</b> <i>Computation in terms of elementary functions of an integral from the Elastodynamic Theory</i>
12:00	<b>Dhouha Gaied</b> <i>Harmonic analysis associated with generalized differential Bessel operator</i>
12:30	<b>Young Woong Park</b> <i>On the number of complex zeros of derivatives of Bessel functions of the first kind</i>
13:30	<b>Lunch</b>

Chairperson: **Ruymán Cruz-Barroso**

15:30	<b>María José Cantero</b> <i>Darboux for CMV, Sobolev and Matrix Orthogonal Polynomials</i>
16:00	<b>Rostyslav Kozhan</b> <i>Zeros of orthogonal and paraorthogonal polynomials via CMV matrices</i>
16:30	<b>William Casper</b> <i>Matrix-valued Discrete-continuous Prolate Operators</i>
17:00	<b>Ignacio Zurrian</b> <i>Bispectrality in different contexts and applications</i>

## Tuesday 25

### Room B

Chairperson: **Óscar Ciaurri**

11:30	<b>Meriem Nenni</b> <i>Plancherel and inversion formulas for the Dunkl-type Segal-Bargmann transform</i>
12:00	<b>Judit Mínguez Cenicerós</b> <i>Sheffer-Dunkl sequences via umbral calculus in the Dunkl context</i>
12:30	<b>Pedro J. Miana</b> <i>Recurrence relations for Catalan polynomials and generating functions for bounded operators</i>
13:30	<b>Lunch</b>

Chairperson: **Chelo Ferreira**

15:30	<b>Jacob Stordal Christiansen</b> <i>Chebyshev polynomials and Widom factors</i>
16:00	<b>Olof Rubin</b> <i>Chebyshev polynomials with a prescribed zero</i>
16:30	<b>Federico Nudo</b> <i>A mixed interpolation-regression method using zeros of orthogonal polynomials and its applications</i>
17:00	<b>Sergey Sekatskii</b> <i>The generalized Littlewood theorem concerning integrals of the logarithm of analytical functions, and its use for analysis of zeroes of analytical functions</i>



## Tuesday 25

### Room C

Chairperson: **Andrei Martínez-Finkelshtein**

11:30	<b>Walter Van Assche</b> <i>A Golub-Welsch version for simultaneous Gaussian quadrature</i>
12:00	<b>Arno Kuijlaars</b> <i>Orthogonal polynomials in a normal matrix model with two insertions</i>
12:30	<b>Ana Foulquié Moreno</b> <i>Bidiagonal Factorization of Hessenberg matrices from multiple orthogonal polynomials</i>
13:30	<b>Lunch</b>

Chairperson: **Joaquín Sánchez-Lara**

15:30	<b>Konrad Schöbel</b> <i>The Variety Underlying the Askey-Wilson Scheme of Hypergeometric Orthogonal Polynomials</i>
16:00	<b>Luis Verde-Star</b> <i>Generalized derivatives and the construction of orthogonal polynomial sequences</i>
16:30	<b>Gahami Abdelhamid</b> <i><math>d</math>-Orthogonal polynomials of Brenke type, <math>(m + 1)</math>-fold symmetric as special case</i>

**Wednesday 26**

**Aula Magna**

Chairperson: **Francisco Marcellán**

09:00	<b>Andrei Martínez-Finkelshtein</b> <i>Hypergeometric Polynomials with Free Probability Tools</i>
-------	--

10:00	<b>Claude Brezinski</b> <i>The birth of orthogonal polynomials</i>
-------	---

11:00	<b>Coffee break</b>
-------	---------------------

Wednesday 26

Room A

Chairperson: Arno Kuijlaars

11:30	<b>Christian Berg</b> <i>Some families of Bernstein functions</i>
12:00	<b>Henrik Laurberg Pedersen</b> <i>Generalized Bernstein functions and applications to special functions</i>
12:30	<b>Umme Zainab</b> <i>Umbral, extension and difference equation for <math>q</math>-Hermite polynomials</i>

**Wednesday 26**

**Room B**

Chairperson: **Benjamin Eichinger**

11:30 **José L. López**  
*The saddle point method for double integrals*

12:00 **Pablo Palacios Herrero**  
*A generalization of the Laplace's method for integrals*

12:30 **Ester Pérez Sinusía**  
*New analytic expansions of the Lerch transcendent*

## Wednesday 26

### Room C

Chairperson: **Claude Brezinski**

11:30	<b>Michela Redivo-Zaglia</b> <i>On the zeros of quasi-orthogonal polynomials</i>
12:00	<b>Aletta Jooste</b> <i>On the zeros of quasi-orthogonal Meixner polynomials</i>
12:30	<b>Marija Stanic</b> <i>Anti-Gaussian quadrature rules related to orthogonality on the semicircle</i>

**Thursday 27**

**Aula Magna**

Chairperson: **Annie Cuyt**

09:00	<b>Marco Bertola</b> <i>Padé approximants and orthogonality beyond the sphere</i>
10:00	<b>Inés Pacharoni</b> <i>Matrix Bochner Problem and Darboux transformations</i>
11:00	<b>Coffee break</b>

# Thursday 27

## Room A

Chairperson: **Marco Bertola**

11:30	<b>David Gómez-Ullate Oteiza</b> <i>Classification of exceptional Jacobi polynomials</i>
12:00	<b>Mirta María Castro Smirnova</b> <i>Time-and-band limiting for exceptional orthogonal polynomials</i>
12:30	<b>Brian Simanek</b> <i>Polynomial Approximation with Missing Degrees</i>
13:30	<b>Lunch</b>
Chairperson: <b>Mirta Castro</b>	
15:30	<b>Yves Grandati</b> <i>Regular multi-parametric rational extensions of the trigonometric Darboux-Pöschl-Teller potential</i>
16:00	<b>Satoshi Tsujimoto</b> <i>Exceptional elliptic biorthogonal rational functions</i>
16:30	<b>Robert Milson</b> <i>Spectral diagrams and exceptional polynomials</i>
17:00	<b>Alejandro Quintero-Roba</b> <i>The Riemann-Hilbert problem for Krall orthogonal polynomials</i>

# Thursday 27

## Room B

Chairperson: **Manuel Mañas**

11:30	<b>Miguel Rojas Rodríguez</b> <i>Nonmonic Christoffel perturbations for mixed multiple orthogonal polynomials</i>
12:00	<b>Amílcar Branquinho</b> <i>Markov chains in the theory of multiple orthogonal polynomials</i>
12:30	<b>Marcus Vaktnäs</b> <i>Szegő Recurrence for Multiple Orthogonal Polynomials on the Unit Circle</i>
13:30	<b>Lunch</b>

Chairperson: **Inés Pacharoni**

15:30	<b>Roberto S. Costas-Santos</b> <i>Sobolev orthogonal polynomials: Connection formulas and zeros</i>
16:00	<b>Edmundo José Huertas</b> <i>On zero behavior of higher-order discrete Sobolev <math>q</math>-Hermite I orthogonal polynomials</i>
16:30	<b>Clemens Markt</b> <i>Explicit representations of the norms of the Jacobi-Sobolev, Laguerre-Sobolev and Gegenbauer-Sobolev polynomials</i>
17:00	<b>Maria das Neves Rebocho</b> <i>Deformed Laguerre-Hahn orthogonal polynomials on the real line</i>



# Thursday 27

## Room C

Chairperson: **Rabia Aktaş Karaman**

11:30	<b>Subhajit Ghosh</b> <i>On the Number of components of random polynomial lemniscates</i>
12:00	<b>Víctor Soto Larrosa</b> <i>Truncated Freud polynomials</i>
12:30	<b>Hanen Saadi</b> <i>Weinstein-type Segal-Bargmann transform and its applications to partial differential equations</i>
13:30	<b>Lunch</b>

Chairperson: **Aron Wennman**

15:30	<b>Anbhu Swaminathan</b> <i>Recovering orthogonality from the quasi-nature of spectral transformations</i>
16:00	<b>Dmitrii Karp</b> <i>Monotonicity and unimodality of some functional series ratios</i>
16:30	<b>Juan Luis González-Santander</b> <i>Calculation of the relaxation modulus in Andrade model by using the Laplace transform</i>
17:00	<b>Taro Nagao</b> <i>Coulomb Gases in an Ellipse and Orthogonal Polynomials</i>

Friday 28

## Aula Magna

Chairperson: **Miguel A. Piñar**

09:00	<b>Ujué Etayo</b> <i>A role of orthogonal polynomials on the equidistribution of points on Manifolds</i>
10:00	<b>Benjamin Eichinger</b> <i>Universality limits via canonical systems</i>
11:00	<b>Closure</b>
11:30	<b>Coffee break</b>