MSC16. Orthogonal polynomials, matrix analysis and applications.

Organizers: Amílcar Branquinho, Ana Foulquié, Manuel Mañas, Francisco Marcellán.

WEDNESDAY, 11:10-11:40: **AULA 15**. The Christoffel function: Some applications and connections. Jean Bernard Lasserre.

WEDNESDAY, 11:40-12:10: **AULA 15**. Lax-type pairs in the theory of bivariate orthogonal polynomials. Teresa E. Pérez.

WEDNESDAY, 12:10-12:40: **AULA 15**. Discrete Darboux Transformations Leading to Nonstandard Orthogonality. Maxim Derevyagin.

WEDNESDAY, 12:40-13:10: **AULA 15**. Inverse Darboux transformations and Sobolev inner products. Francisco Marcellán.

THURSDAY, 11:10-11:40: **AULA 15**. Bernstein-Szegö measures in the plane. Jeffrey Geronimo.

THURSDAY, 11:40-12:10: **AULA 15**. Time-and-band limiting for exceptional orthogonal polynomials. Mirta M. Castro Smirnova.

THURSDAY, 12:10-12:40: **AULA 15**. On generating Sobolev orthogonal polynomials. Niel van Buggenhout.

THURSDAY, 17:00-17:30: **AULA 15**. Spectral theory for bounded banded matrices with positive bidiagonal factorization and mixed multiple orthogonal polynomials. Ana Foulquié-Moreno.

THURSDAY, 17:30-18:00: **AULA 15**. A generalisation of the Hermite-Biehler theorem. Mikhail Tyaglov.

THURSDAY, 18:00-18:30: **AULA 15**. Jacobi matrices on binary trees: multilevel interpolations and boundedness. Vladimir Lysov.

FRIDAY, 11:10-11:40: **AULA 15**. Linear systems of moment differential equations. Alberto Lastra.

FRIDAY, 11:40-12:10: **AULA 15**. A matrix approach to the linearization and connection coefficients of orthogonal polynomial sequences. Luis Verde-Star.

FRIDAY, 12:10-12:40: **AULA 15**. Eigenvalues of infinite Hermitian matrices and Sobolev orthogonal polynomials. Carmen Escribano.

FRIDAY, 12:40-13:10: **AULA 15**. A matrix approach to bounded point evaluation and zeros of Sobolev orthogonal polynomials. Raquel Gonzalo.

Updated: 02 June 2023