



# **Programs of Sessions & General Schedule**

Almería, June 6-10, 2005

# Session 1: Algebras and their Representations

Room 9, 1st floor

Monday 6	Tuesday 7	Wednesday 8	Thursday 9	Friday 10
	9:00-9:45 <b>ENOCHS</b>	9:00-9:45 <b>MARTÍNEZ</b>	9:00-9:45 <b>ELDUQUE</b>	9:00-9:45 <b>VAN OYSTAEYEN</b>
10:00-11:30 REGISTRATION	9:45-10:30 <b>JENDA</b>	9:45-10:10 ABDELLAZIF	9:45-10:10 EL KAOUTIT	9:45-10:10 VERCRUYSSSE
		10:15-10:40 L'MOUFADAL	10:15-10:40 CUADRA	10:15-10:40 FATTAHI
	10:35-11:00 BICAN	10:40-11:05 FEMIC	10:40-11:05 GONZÁLEZ	10:40-11:05 AZIZI
	<i>COFFEE</i>	<i>COFFEE</i>	<i>COFFEE</i>	<i>COFFEE</i>
11:30-12:00 WELCOME	11:30-12:00 POSTERS	11:30-12:00 POSTERS	11:30-12:15 <b>SMITH</b>	Presentation ICM 2006
12:00-13:00 ZELMANOV	12:00-13:00 QUARTERONI	12:00-12:25 BAZZONI	12:15-12:40 BRUSTENGA	12:00-13:00 CATANESE
		12:30-12:55 TONOLO	12:40-13:05 ASADOLLAH D.	
<i>COCKTAIL</i>	<i>LUNCH</i>	13:00-13:25 NAVARRO	13:05-13:30 BARRY	<i>LUNCH</i>
		<i>LUNCH</i>	<i>LUNCH</i>	
15:30-16:15 <b>SMALL</b>	<b>EXCURSION</b>	15:30-16:15 <b>LÓPEZ-PERMOUTH</b>	<b>EXCURSION</b>	
16:15-16:40 ESTRADA		16:15-16:40 COUSELO		
16:40-17:05 ESSANNOUNI		16:40-17:05 CHOULLI		
<i>COFFEE</i>		<i>COFFEE</i>		
17:30-18:15 <b>BENKART</b>		17:30-18:15 <b>GUIL</b>		
18:15-18:40 MAKHLOUF		18:15-18:40 ORTEGA		
18:40-19:05 SILES		18:40-19:05 GHADIRIHERATI		
19:05-19:30 AHMADZADEH		19:05-19:30 SANGHARE		

## Monday 6

- 15:30-16:15 L. SMALL: *Nil subrings of endomorphism rings*  
 16:15-16:40 S. ESTRADA: *The group of covering automorphisms of a quasi-coherent sheaf*  
 16:40-17:05 H. ESSANNOUNI: *On co-noetherian rings*

- 17:30-18:15 G. BENKART: *Lambda determinants, group characters, and perfect matchings*  
 18:15-18:40 A. MAKHLOUF: *Deformation by quantification and rigidity of enveloping algebras*  
 18:40-19:05 M. SILES: *Finite-gradings of simple associative algebras*  
 19:05-19:30 M. AHMADZADEH-RAJI: *On  $SL(2,p)$ -construction of unimodular lattices*

**Tuesday 7**

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- 09:00-9:45 E. ENOCHS: *Gorenstein categories and Tate cohomology on projective schemes*  
9:45-10:30 O. JENDA: *Gorenstein injective modules over commutative noetherian rings*  
10:35-11:00 L. BICAN: *On torsion free classes which are not precover classes*

**Wednesday 8**

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- 9:00-9:45 C. MARTÍNEZ: *On prime-graded Lie algebras of growth one*  
9:45-10:10 R. ABDELLATIF: *Finite-dimensional absolute valued algebras containing a central idempotent*  
10:15-10:40 B. L'MOUFADAL: *Jordan derivation and Jordan automorphisms of triangular matrix algebra*  
10:40-11:05 B. FEMIC: *The Brauer group of Azumaya corings and the second cohomology group*
- 12:00-12:25 S. BAZZONI: *Tilting modules are of finite type*  
12:30-12:55 A. TONOLO: *Tilting equivalences*  
13:00-13:25 G. NAVARRO: *On stable localizations of coalgebras*
- 15:30-16:15 S. LÓPEZ-PERMOUTH: *On the role of rings and modules in algebraic coding theory*  
16:15-16:40 E. COUSELO: *Algebra applications to coding theory*  
16:40-17:05 H. CHOULLI: *On normed coalgebras*
- 17:30-18:15 P. A. GUIL: *Flat cotorsion modules and pure-injectivity*  
18:15-18:40 E. ORTEGA: *Ring of quotients of path algebras*  
18:40-19:05 M. GHADIRIHERATI: *Hv-Fields of fractions and Hv-Quotient rings*  
19:05-19:30 M. SANGHARE: *Characterizations of FGI-duo-rings*

**Thursday 9**

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- 9:00-9:45 A. ELDUQUE: *New simple Lie superalgebras*  
9:45-10:10 L. EL KAOUTIT: *Comatrix corings and invertible bimodules*  
10:15-10:40 J. CUADRA: *On coFrobenius Hopf algebras*  
10:40-11:05 R. GONZÁLEZ: *Crossed products for weak structures*
- 11:30-12:15 P. MITH: *Artinian rings and modules*  
12:15-12:40 M. BRUSTENGA:  *$K_1$  of corner skew Laurent polynomial rings and applications*  
12:40-13:05 J. ASADOLLAH DEHAGI: *Gorenstein local cohomology modules*  
13:05-13:30 M. BARRY: *On commutative FGI-rings*

**Friday 10**

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- 9:00-9:45 F. VAN OYSTAEYEN: *To be announced*  
9:45-10:10 J. VERCRUYSSSE: *Cohomology for comodules: Separable and Maschke functors*  
10:15-10:40 A. FATTAHI: *Regular reductive semigroup  $E$ -subcompactification*  
10:40-11:05 A. AZIZI: *Hollow modules*

# Session 2: Geometry and Topology

Room 7, ground floor

Monday 6	Tuesday 7	Wednesday 8	Thursday 9	Friday 10
	9:00-10:00 <b>JARDINE</b>	9:00-10:00 <b>HUNTON</b>	9:00-10:00 <b>GREENLEES</b>	9:00-10:00 <b>BAUER</b>
10:00-11:30 REGISTRATION	10:10-10:55 TONKS <i>COFFEE</i>	10:10-10:55 MUNDET <i>COFFEE</i>	10:10-10:55 PENACCHIO <i>COFFEE</i>	10:10-10:55 FREDIANI <i>COFFEE</i>
11:30-12:00 WELCOME	11:30-12:00 POSTERS	11:30-12:00 POSTERS	11:30-12:15 PIGNATELLI	Presentation ICM 2006
12:00-13:00 ZELMANOV	12:00-13:00 QUARTERONI	12:00-13:00 <b>GARCÍA-PRADA</b>	12:15-13:00 BELHAJ	12:00-13:00 CATANESE
<i>LUNCH</i>	<i>LUNCH</i>	<i>LUNCH</i>	<i>LUNCH</i>	<i>LUNCH</i>
15:30-16:15 WHITEHOUSE	EXCURSION	15:30-16:15 FLORES	EXCURSION	
16:15-17:00 VIRUEL		16:15-17:00 SMREKAR		
<i>COCKTAIL</i>		<i>COFFEE</i>		
17:30-18:30 <b>NEEMAN</b>		17:30-18:15 MURO		
		18:15-19:00 CHARITOS		

**Monday 6**

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- 15:30-16:15 S. WHITEHOUSE: *Stable and unstable operations in p-local K-theory*  
16:15-17:00 A. VIRUEL: *On the cohomology of finite p-groups*
- 17:30-18:30 A. NEEMAN: *Additivity for derivator K-theory*

**Tuesday 7**

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- 9:00-10:00 R. JARDINE: *Diagrams and torsors*  
10:10-10:55 A. TONKS: *On Kan's loop group and the cobar construction*

**Wednesday 8**

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- 9:00-10:00 J. HUNTON: *Classifying spaces, diffraction and moduli spaces of point patterns*  
10:10-10:55 I. MUNDET: *Hamiltonian quantum product in equivariant cohomology*
- 12:00-13:00 O. GARCÍA-PRADA: *Generalised Teichmüller spaces and Higgs bundles*  
15:30-16:15 R. FLORES: *Cellularization of classifying spaces*  
16:15-17:00 J. SMREKAR: *CW homotopy type of the space of maps to a  $K(G,n)$*
- 17:30-18:15 F. MURO: *Triangulated track categories*  
18:15-19:00 C. CHARITOS: *Compressible ends of leaves in foliated 3-manifolds*

**Thursday 9**

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- 9:00-10:00 J. GREENLEES: *Rational torus-equivariant cohomology theories and Jacobians of curves*  
10:10-10:55 O. PENACCHIO: *Mixed Hodge structures and instanton bundles*
- 11:30-12:15 R. PIGNATELLI: *Fibrations of low genus and surfaces with  $q = p_g = 1$*   
12:15-13:00 A. BELHAJ: *Mirror symmetry and toric super Calabi–Yau manifolds*

**Friday 10**

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- 9:00-10:00 I. BAUER: *Geometry of abelian covers and special ballquotients*  
10:10-10:55 P. FREDIANI: *Principal holomorphic torus bundles over tori*

# Session 3: Approximation, Special Functions and Numerical Analysis

Room 1, ground floor

Monday 6	Tuesday 7	Wednesday 8	Thursday 9	Friday 10
	9:00-10:00 <b>SERRA</b>	9:00-10:00 <b>LAGOMASINO</b>	9:00-9:30 GARRANCHO 9:30-10:00 CALVO	
10:00-11:30 REGISTRATION	10:00-10:30 GOLINSKIY	10:00-10:30 ÁLVAREZ	10:00-10:30 PORTILLA	
	10:30-11:00 MARCELLÁN	10:30-11:00 FOULQUIÉ	10:30-11:00 WIELONSKY	
	COFFEE	COFFEE	COFFEE	COFFEE
11:30-12:00 WELCOME	11:30-12:00 POSTERS	11:30-12:00 POSTERS	11:30-12:00 VAN ISEGHEM	Presentation ICM 2006
12:00-13:00 ZELMANOV	12:00-13:00 QUARTERONI	12:00-12:30 CASTRO	12:00-12:30 MATOS	12:00-13:00 CATANESE
		12:30-13:00 OULAD	12:30-13:00 LÓPEZ, J.L.	
COCKTAIL	LUNCH	13:00-13:30 CANTERO	13:00-13:30 FERREIRA	LUNCH
		LUNCH	LUNCH	
15:30-16:30 <b>VALENT</b>	EXCURSION	15:30-16:00 SRI RANGA	EXCURSION	
16:30-17:00 BECKERMANN		16:00-16:30 BRANQUINHO		
COFFEE		16:30-17:00 PEREZ		
17:30-18:00 HERNÁNDEZ		COFFEE		
18:00-18:30 ROMERO		17:30-18:00 ESCRIBANO		
18:30-19:00 TRILLO		18:00-18:30 EZQUERRO		
19:00-19:30 LIDOUH		18:30-19:00 BENZINE		
		19:00-19:30 RABAH		

## Monday 6

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- 15:30-16:30 G. VALENT: *From orthogonal polynomials asymptotics to spectral measures: determinate versus indeterminate moment problems*
- 16:30-17:00 B. BECKERMANN: *GMRES convergence bounds in terms of numerical range*
- 17:30-18:00 R. HERNÁNDEZ HEREDERO: *Multisymplectic discretisation of higher order Lagrangians*
- 18:00-18:30 N. ROMERO ÁLVAREZ: *Approximating roots for quadratic equations with prefixed R-order of convergence*
- 18:30-19:00 J. C. TRILLO MOYA: *Lagrange interpolation for continuous piecewise smooth functions*
- 19:00-19:30 A. LIDOUH: *Étude numérique d'un problème de colonnes chromatographiques à tríos niveaux*

**Tuesday 7**

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- 09:00-10:00 S. SERRA CAPIZZANO: *The GLT class as a Generalized Fourier Analysis and applications*
- 10:00-10:30 L. GOLINSKIY: *Discrete spectra of complex Jacobi matrices*
- 10:30-11:00 F. MARCELLÁN: *Spectral transforms and Hermitian Toeplitz matrices*

**Wednesday 8**

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- 9:00-10:00 G. LÓPEZ LAGOMASINO: *Ratio asymptotic of Hermite–Padé orthogonal polynomials for Nikishin Systems*
- 10:00-10:30 I. ÁLVAREZ ROCHA: *Ratio asymptotic for polynomials of multiple orthogonality*
- 10:30-11:00 A. FOULQUIÉ MORENO: *Riemann–Hilbert problems for a Generalized Nikishin System*
- 12:00-12:30 M. CASTRO SMIRNOVA: *The algebra of matrix valued differential operators associated to a given family of matrix valued orthogonal polynomials: some instructive examples*
- 12:30-13:00 H. OULAD YAKHLEF: *Relative asymptotics for orthogonal matrix polynomials with varying recurrence coefficients*
- 13:00-13:30 M. J. CANTERO: *Some questions about the classification of matrix orthogonal polynomials*
- 15:30-16:00 A. SRI RANGA: *Another connection between orthogonal polynomials and L-orthogonal polynomials*
- 16:00-16:30 A. BRANQUINHO: *Riccati matrix differential equations in the orthogonal polynomials theory*
- 16:30-17:00 T. E. PEREZ: *Classical orthogonal polynomials in several variables*
- 17:30-18:00 C. ESCRIBANO: *Smallest eigenvalue of an infinite Hermitian definite positive matrix and the moment problem in the complex plane*
- 18:00-18:30 J. A. EZQUERRO FERNÁNDEZ: *An analysis of the R-order of convergence for Newton’s method under more general conditions than Kantorovich one’s*
- 18:30-19:00 R. BENZINE: *On asymptotics of  $L_p$  extremal polynomials*
- 19:00-19:30 K. RABAH: *Power asymptotic for general Chebyshev polynomials*

**Thursday 9**

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- 9:00-9:30 P. GARRANCHO: *A problem on generalized convexity and saturation of linear shape preserving operators*
- 9:30-10:00 C. CALVO JURADO: *Optimization by the homogenization method for nonlinear elliptic Dirichlet systems*
- 10:00-10:30 A. PORTILLA: *Weierstrass’ theorem in weighted Sobolev spaces*
- 10:30-11:00 F. WIELONSKY: *Superluminal systems and a bounded extremal problem in Hardy space*
- 11:30-12:00 J. VAN ISEGHEM: *Shohat–Favard Theorem and orthogonal series*
- 12:00-12:30 A. MATOS: *Multivariate Frobenius–Padé approximants*
- 12:30-13:00 J. L. LÓPEZ: *Asymptotic behaviour of  $\int_0^\infty f(t)h(xt)dt$  by means of analytic continuation*
- 13:00-13:30 CH. FERREIRA: *The symmetric standard elliptic integrals with two or three large parameters*

# Session 4: Functional Analysis and its Applications

Room 2, ground floor

Monday 6	Tuesday 7	Wednesday 8	Thursday 9	Friday 10
	9:00-09:45 <b>CAÑADA</b>	9:00-09:45 <b>MBEKHTA</b>		
10:00-11:30 REGISTRATION	09:45-10:10 BURGOS	09:45-10:10 AIZPURU		
	10:10-10:35 FILALI	10:10-10:35 CONEJERO		
	10:35-11:00 PERALTA	10:35-11:00 VELASCO		
	<i>COFFEE</i>	<i>COFFEE</i>		
11:30-12:00 WELCOME	11:30-12:00 POSTERS	11:30-12:00 POSTERS		Presentation ICM 2006
12:00-13:00 ZELMANOV	12:00-13:00 QUARTERONI	12:00-12:25 BECERRA		12:00-13:00 CATANESE
		12:25-12:50 FERNÁNDEZ		
<i>COCKTAIL</i>	<i>LUNCH</i>	12:50-13:15 HARTI		
		<i>LUNCH</i>	<i>LUNCH</i>	<i>LUNCH</i>
15:30-16:15 <b>LLAVONA</b>	EXCURSION		EXCURSION	
16:15-16:40 AIZPURU		16:15-16:40 MIANA		
16:40-17:05 BLASCO		16:40-17:05 AL-MOMANI		
<i>COFFEE</i>		<i>COFFEE</i>		
17:30-17:55 KRAMER		17:30-17:55 TRUJILLO		
17:55-18:20 DEL CAMPO		17:55-18:20 MEDINA		
18:20-18:45 PÉREZ		18:20-18:45 MAZAHERI		
18:45-19:10 LEANDRE		18:45-19:10 BOUGUIMA		



## Monday 6

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- 15:30-16:15 J.G. LLAVONA: *Approximation methods by regular functions*  
16:15-16:40 A. AIZPURU: *Propiedades de espacios de Banach y convergencia estadística*  
16:40-17:05 O. BLASCO: *Hölder inequality with respect to bilinear map*
- 17:30-17:55 A. V. KRAMER: *Linear functions and scalar products*  
17:55-18:20 R. DEL CAMPO: *A unified treatment of finitely additive integration*  
18:20-18:45 F. J. PÉREZ: *Embedding theorems for anisotropic Lipschitz spaces*  
18:45-19:10 R. LEANDRE: *Malliavin calculus of Bismut type without probability*

## Tuesday 7

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- 9:00-9:45 A. CAÑADA: *Lyapunov-type inequalities for differential equations*  
9:45-10:10 M. J. BURGOS-NAVARRO: *Unitary Jordan-Banach algebras*  
10:10-10:35 M. FILALI: *Weak amenability of the second dual of a Banach algebra*  
10:35-11:00 A. M. PERALTA: *The alternative Dunford–Pettis and the Kadec–Klee properties on  $C^*$ -algebras and  $JB^*$ -triples*

## Wednesday 8

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- 9:00-9:45 M. MBEKHTA: *Operators similar to partial isometries*  
9:45-10:10 A. AIZPURU: *Aplicaciones lineales que preservan el diámetro entre espacios de funciones continuas*  
10:10-10:35 J. A. CONEJERO: *Mixing criteria for semigroups of operators*  
10:35-11:00 M. V. VELASCO: *The spectrum and the continuity of dense range homomorphisms*
- 12:00-12:25 J. A. BECERRA-GUERRERO: *Slices in the unit ball of symmetric projective tensor product of  $JB^*$ -triples*  
12:25-12:50 F. J. FERNÁNDEZ-POLO: *Geometric characterization of tripotents in real and complex  $JB^*$ -triples*  
12:50-13:15 R. EL-HARTI: *Amenable  $C^*$ -algebras generated by a single Hilbert space operator*
- 16:15-16:40 P. J. MIANA: *The Widder-Kisynski theorem on convolution algebras*  
16:40-17:05 R. AL-MOMANI: *On the solvability of some differential equations with constant periodic*
- 17:30-17:55 M. TRUJILLO-GUILLÉN: *Green's function of the Neumann problem for the hyperbolic anisymmetric heat conduction in a circular plate*  
17:55-18:20 R. MEDINA: *Abstract difference equations*  
18:20-18:45 H. MAZAHERI: *The orthogonality and quasi-orthogonality of the best approximant set*  
18:45-19:10 S. M. BOUGUIMA: *An elliptic system modelling two populations competing for resources in a bounded region*

# Session 5: General Topology and its Applications

Dedicated to the 65<sup>th</sup> birthday of Gino Tironi

Room 3, ground floor

Monday 6	Tuesday 7	Wednesday 8	Thursday 9	Friday 10
			9:00-9:20 HAGHNEJAD	9:00-9:20 KOZHAN
			9:20-9:40 SZYSKOWSK	9:20-9:40 CASERTA
			9:40-10:00 CAMPIÓN	9:40-10:00 MECCARIELL
10:00-11:30 REGISTRATION			10:00-10:20 INDURAIN	10:00-10:20 DI MAIO
			10:20-10:40 MARTÍNEZ	10:20-11:05 <b>NAIMPALLY</b>
			10:40-11:00 PERIS	
	<i>COFFEE</i>	<i>COFFEE</i>	<i>COFFEE</i>	<i>COFFEE</i>
11:30-12:00 WELCOME	11:30-12:00 POSTERS	11:30-12:00 POSTERS	11:30-12:00 POSTERS	Presentation ICM 2006
12:00-13:00 ZELMANOV	12:00-13:00 QUARTERONI		12:00-12:20 GUTIÉRREZ	12:00-13:00 CATANESE
			12:20-12:40 BALIBREA	
			12:40-13:00 GARCÍA	
			13:00-13:20 JUHER	
<i>COCKTAIL</i>	<i>LUNCH</i>	<i>LUNCH</i>	<i>LUNCH</i>	<i>LUNCH</i>
	EXCURSION	16:00-16:45 <b>TIRONI</b>	EXCURSION	
		16:45-17:05 BELLA		
<i>COFFEE</i>		<i>COFFEE</i>		
		17:30-17:50 GEORGIU		
		17:50-18:10 VILCHES		
		18:10-18:30 BENKAFADA		
		18:30-18:50 KHAN		
		18:50-19:10 MOSHOKOA		
		19:10-19:30 BATÍKOVÁ		

## Wednesday 8

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- 16:00-16:45 G. TIRONI: *Pseudoradial problems: results and problems*  
16:45-17:05 A. BELLA: *Remarks on a theorem of Sapirovsii*
- 17:30-17:50 D. GEORGIU: *Some problems concerning splitting and admissible topologies*  
17:50-18:10 J. A. VILCHES: *Classifying discrete Morse function*  
18:10-18:30 N. BENKAFADAR: *On some coincidence point theorems*  
18:30-18:50 M. KHAN: *A variant of Banach fixed point theorem*  
18:50-19:10 S. MOSHOKOA: *An analogue of the Tietze extension theorem in bitopological spaces*  
19:10-19:30 B. BATÍKOVÁ: *Completion of semi-uniformities*

## Thursday 9

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- 9:00-9:20 K. HAGHNEJAD: *Separable metric spaces*  
9:20-9:40 M. SZYSKOWSKI: *Axial mappings*  
9:40-10:00 M. J. CAMPIÓN: *On Yi's extension property for totally preordered topological spaces*  
10:00-10:20 E. INDURAIN: *Representable topologies and locally connected spaces*  
10:20-10:40 F. MARTÍNEZ-GIMÉNEZ: *Chaotic multipliers and tensor products*  
10:40-11:00 A. PERIS: *Set-valued discrete chaos*  
11:30-12:00 (posters\*, see the updated list below)  
12:00-12:20 J. GUTIÉRREZ: *Hutton  $[0,1]$ -quasi-uniformities induced by fuzzy (quasi-)metric spaces*  
12:20-12:40 F. BALIBREA: *The set of omega-limit points in dynamical systems of low dimension*  
12:40-13:00 J. L. GARCÍA GUIRAO: *On the dynamics of a Sarkovskii map on a triangle*  
13:00-13:20 D. JUHER: *The minimum tree for a given zero-entropy period*

## Friday 10

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- 9:00-9:20 R. KOZHAN: *Open-multicommutativity of the probability measure functor*  
9:20-9:40 A. CASERTA: *Order resolutions and lexicographic products*  
9:40-10:00 E. MECCARIELLO: *Hyperspace and function space as duals*  
10:00-10:20 G. DI MAIO: *Uniformly discrete hit-and-miss hypertopology: a missing link in hypertopologies*  
10:20-11:05 S. NAIMPALLY: *Duality in function spaces*

## \*Posters

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- F. CAGLIARI: *Exponentiable homomorphism in the category of DCPO*  
D. GEORGIU: *Characterizations of closed sets in product spaces*  
V. GREGORI: *On some results in fuzzy metric spaces*  
J. M. SÁNCHEZ-ÁLVAREZ: *New results on semi-Lipschitz functions that are valued in a quasi-normed linear space*  
A. SAPENA: *On quiet fuzzy quasi-metric spaces*  
P. TIRADO: *The Banach fixed point theorem in fuzzy quasi-metric spaces*  
O. VALERO: *A characterization of generalized monotone normed cones*

# Session 6: Probabilistic Spaces, Copulae and t-norms. Applications

Room 3, ground floor

Monday 6	Tuesday 7	Wednesday 8	Thursday 9	Friday 10
	9:00-10:00 <b>SEMPI</b>	9:00-9:30 VIVO MOLINA		
10:00-11:30 REGISTRATION	10:00-10:30 TAYLOR	9:30-10:00 EL-NADI		
	10:30-11:00 VAEZPOUR			
	<i>COFFEE</i>	<i>COFFEE</i>	<i>COFFEE</i>	<i>COFFEE</i>
11:30-12:00 WELCOME	11:30-12:00 POSTERS	11:30-12:00 POSTERS		Presentation ICM 2006
12:00-13:00 ZELMANOV	12:00-13:00 QUARTERONI			12:00-13:00 CATANESE
<i>COCKTAIL</i>	<i>LUNCH</i>	<i>LUNCH</i>	<i>LUNCH</i>	<i>LUNCH</i>
15:30-16:30 <b>QUESADA MOLINA</b>	EXCURSION		EXCURSION	
16:30-17:00 DE SCHUYMER				
<i>COFFEE</i>		<i>COFFEE</i>		
17:30-18:00 DURANTE				
18:00-18:30 SALVADORI				
18:30-19:00 ÚBEDA FLORES				

## Monday 6

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- 15:30-16:30 J. J. QUESADA MOLINA: *The origin and development of the theory of copulas*  
 16:30-17:00 B. De SCHUYMER: *On some new forms of cycle-transitivity and their relation to commutative copulas*
- 17:30-18:00 F. DURANTE: *A new class of copulas*  
 18:00-18:30 G. SALVADORI: *Calculating the return periods via copulas*  
 18:30-19:00 M. ÚBEDA FLORES: *New classes of multivariate copulas*

## Tuesday 7

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- 09:00-10:00 C. SEMPI: *A short and partial history of probabilistic normed spaces*  
 10:00-10:30 M. TAYLOR: *Properties of multivariate measures of concordance*  
 10:30-11:00 S. M. VAEZPOUR: *A comment on the probabilistic metric spaces*

## Wednesday 8

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- 9:00-9:30 J. M. VIVO MOLINA: *On Log-concavity of the maximum statistic from Friday and Patil bivariate exponential model*  
 9:30-10:00 K. EL-NADI: *On some stochastic differential equations and fractional Brownian motion*

# Session 7: Random Models and Design of Experiments

Room 4, ground floor

Monday 6	Tuesday 7	Wednesday 8	Thursday 9	Friday 10
10:00-11:30 REGISTRATION	10:00-11:00 <b>CONRADO</b>	9:45-10:15 CELESTE		
		10:30-11:00 MODA N		
	<i>COFFEE</i>	<i>COFFEE</i>	<i>COFFEE</i>	<i>COFFEE</i>
11:30-12:00 WELCOME	11:30-12:00 POSTERS	11:30-12:00 POSTERS		Presentation ICM 2006
12:00-13:00 ZELMANOV	12:00-13:00 QUARTERONI	12:00-12:30 VICTOR RUIZ		12:00-13:00 CATANESE
<i>COCKTAIL</i>	<i>LUNCH</i>	<i>LUNCH</i>	<i>LUNCH</i>	<i>LUNCH</i>
	EXCURSION		EXCURSION	
<i>COFFEE</i>		<i>COFFEE</i>		

## Tuesday 7

10:00-11:00 C. M. MANUEL GARCÍA: *Centrality of individuals and cohesiveness of subgroups in economical networks a game theoretical approach*

## Wednesday 8

09:45-10:15 C. MORAIS: *Scheduling parallel tasks of Linear Algebra on heterogeneous clusters*

10:30-11:00 M. LAURENTIU: *New ideas for random graphs*

12:00-12:30 V. M. RUÍZ MORCILLO: *A matricial method to obtain a family of discrete stationary processes*

# Session 8: Financial Mathematics and Mathematical Economics

Room 5, ground floor

Monday 6	Tuesday 7	Wednesday 8	Thursday 9	Friday 10
	9:00-9:30 FRANCO	9:00-9:30 CONTRERAS		
	9:30-10:00 VIVO	9:30-10:00 HERRANZ		
10:00-11:30 REGISTRATION	10:00-10:30 GIARLOTTA	10:00-10:30 SEGOVIA		
	10:30-11:00 RODRÍGUEZ	10:30-11:00 TENORIO		
	COFFEE	COFFEE	COFFEE	COFFEE
11:30-12:00 WELCOME	11:30-12:00 POSTERS	11:30-12:00 POSTERS		Presentation ICM 2006
12:00-13:00 ZELMANOV	12:00-13:00 QUARTERONI			12:00-13:00 CATANESE
COCKTAIL	LUNCH	LUNCH	LUNCH	LUNCH
15:30-16:30 VAN DORP	EXCURSION		EXCURSION	
16:30-17:00 MUÑOZ				
COFFEE		COFFEE		
17:30-18:00 CANDEAL				

## Monday 6

- 15:30-16:30 J. RENÉ VAN DORP: *The double-Pareto uniform distribution*  
 16:30-17:00 M. J. MUÑOZ TORRECILLAS: *Mathematical properties of subadditivity*  
 17:30-18:00 J. C. CANDEAL: *Utility theory in infinite dimensional spaces*

## Tuesday 7

- 09:00-09:30 M. FRANCO: *Valuation method of the two survival functions as a proxy methodology in risk analysis*  
 09:30-10:00 J. M. VIVO MOLINA: *Extreme statistics in the valuation methods based on two probability models*  
 10:00-10:30 A. GIARLOTTA: *Lexicographic utility theory*  
 10:30-11:00 J. C. RODRÍGUEZ ALCANTUD: *Optimality in binary and non-binary settings: Topological characterizations*

## Wednesday 8

- 9:00-9:30 I. CONTRERAS RUBIO: *Ideal point methods for MCDM problems with partial. A financial application*  
 9:30-10:00 P. HERRANZ PEINADO: *Approach to the financial-actuarial formulation of a long-term care insurance*  
 10:00-10:30 M. MANUELA SEGOVIA GONZÁLEZ: *Functional principal components analysis in the automobile*  
 10:30-11:00 Á. F. TENORIO VILLALÓN: *Topological interpretation on input-output analysis*

# Session 9: Mathematics Education

Room 6, ground floor

Monday 6	Tuesday 7	Wednesday 8	Thursday 9	Friday 10
	9:00-10:30 BATANERO	9:30-10:00 HAMMED	9:00-10:30 RICO	
		10:00-10:30 TADEU		
10:00-11:30 REGISTRATION	10:30-11:00 MORENO	10:30-11:00 ROMERO		
	COFFEE	COFFEE	COFFEE	COFFEE
11:30-12:00 WELCOME	11:30-12:00 POSTERS	11:30-12:00 POSTERS	11:30-12:00 BOSCH	Presentation ICM 2006
12:00-13:00 ZELMANOV	12:00-13:00 QUARTERONI	12:10-12:40 GIL	12:00-12:30 CODINA	12:00-13:00 CATANESE
			12:30-13:00 FRÍAS	
COCKTAIL	LUNCH	LUNCH	LUNCH	LUNCH
	EXCURSION		EXCURSION	
COFFEE		COFFEE		

## Tuesday 7

- 9:00- 10:30 C. BATANERO: *Statistical Literacy: challenges for teaching and research*  
 10:30 -11:00 F. MORENO: *Profesores de matemáticas de secundaria en formación y algunas preguntas utilizadas en el estudio PISA*

## Wednesday 8

- 9:30-10:00 A. HAMMED: *Importance of mathematics in school*  
 10:00 -10:30 P. TADEU: *Polygons, matrices and inverses. Could be connected?*  
 10:30-11:00 I. ROMERO: *La tutoría de trabajos en Didáctica de las Matemáticas y Didáctica de las Ciencias a alumnos universitarios. Una experiencia de innovación sistemática*  
 12:10 -12:40 F. GIL: *Autoevaluación en Matemáticas*

## Thursday 9

- 9:00-10:30 L. RICO: *Números negativos en España durante el siglo XVIII: evolución de un concepto en los libros de texto*  
 11:30-12:00 A. BOSCH: *Resolución de problemas de división en educación infantil. Una Investigación en curso*  
 12:00-12:30 A. CODINA: *Nuevas Tecnologías en la Enseñanza de las Matemáticas*  
 12:30-13:00 A. FRÍAS: *Resolución de Problemas*

# General Schedule

Monday 6	Tuesday 7	Wednesday 8	Thursday 9	Friday 10
	work by sessions (Aulario I)	work by sessions (Aulario I)	work by sessions (Aulario I)	work by sessions (Aulario I)
10:00-11:30 REGISTRATION (Aulario I)	11:00-11:30 COFFEE (Aulario I)	11:00-11:30 COFFEE * (Aulario I)	11:00-11:30 COFFEE (Dining Room)	11:00-11:30 COFFEE (Dining Room)
11:30-12:00 WELCOME (Auditorio)	11:30-12:00 POSTERS (Aulario I)	11:30-12:00 POSTERS * (Aulario I)	work by sessions (Aulario I)	Presentation ICM 2006 ** (Auditorio)
12:00-13:00 ZELMANOV (Auditorio)	12:00-13:00 QUARTERONI (Auditorio)	work by sessions (Aulario I)		12:00-13:00 CATANESE (Auditorio)
13:30 COCKTAIL (Patio de los Naranjos)	13:00-15:30 LUNCH (Dining Room)	13:00-15:30 LUNCH (Dining Room)	13:00-15:30 LUNCH (Dining Room)	13:00-15:30 LUNCH (Dining Room)
work by sessions (Aulario I)	17:30 in Plaza de la Catedral. Visit to the Alcazaba	work by sessions (Aulario I)	16:30 in the bus stop of the University. Excursión to Cabo de Gata	
17:00-17:30 COFFEE (Dining Room)		17:00-17:30 COFFEE (Dining Room)		
work by sessions (Aulario I)		work by sessions (Aulario I)		
		21:30 Conference dinner in Gran Hotel de Almería		

\*: On Wednesday 8, from 11 to 12h, Birkhauser Verlag will present the Mediterranean Journal of Mathematics, and the future issue dedicated to CIMMA. All participants are welcome to visit the stand and enjoy some Suisse surprise.

\*\* : International Congress of Mathematicians (ICM 2006) to be held in Madrid next year; presented by José Luis González-Llavona (secretary) and Carles Casacuberta (vice-president).

## Map of the University:

