

2. MIÉRCOLES, 3 DE SEPTIEMBRE

8.30-9.15 INSCRIPCIÓN

9.15-9.45 PALABRAS DE BIENVENIDA

[Moderador: D. MORA]

9.45-10.30 RICARDO DURÁN: *Weights and applications.*

10.30-11.00 RAMIRO ACEVEDO, CHRISTIAN GÓMEZ: *Well-posedness results for a family of evolution degenerate mixed problems.*

11.00-11.30 COFFEE BREAK

11.30-12.00 MAURICIO BARRIENTOS, KARINA VILCHES: *Numerical analysis of a parabolic problem via mixed finite element methods.*

12.00-12.30 ANA ALONSO RODRÍGUEZ, JESSIKA CAMAÑO, RODOLFO RODRÍGUEZ, ALBERTO VALLI: *Assessment of two approximation methods for the inverse problem of electroencephalography.*

12.30-13.00 VERÓNICA ANAYA, CARLOS REALES, RICARDO RUIZ-BAIER: *Stabilized mixed finite element approximation of axisymmetric Brinkman flows.*

13.00-15.00 ALMUERZO

[Moderador: L. HERVELLA-NIETO]

15.00-15.45 SÖREN BARTELS, ANDREA BONITO, RICARDO H. NOCHETTO: *Bi-layer plates: Model reduction, analysis and computation.*

15.45-16.15 SALIM MEDDAHI, DAVID MORA, RODOLFO RODRÍGUEZ: *Numerical approximation of a pseudostress formulation for the Stokes eigenvalue problem.*

16.15-16.45 ALFREDO BERMÚDEZ, DOLORES GÓMEZ, RODOLFO RODRÍGUEZ, PABLO VENEGAS: *Numerical solution of axisymmetric eddy current problems with hysteresis.*

16.45-17.15 COFFEE BREAK

17.15-17.45 LEONARDO FIGUEROA: *Eigenvalue problems on the unit disk by the hyperspherical method.*

17.45-18.15 RODOLFO RODRÍGUEZ, FRANK SANHUEZA: *A finite element method for very large floating structures.*

18.15-18.45 MARIO ALVAREZ, GABRIEL N. GATICA, RICARDO RUIZ-BAIER: *An augmented mixed-primal finite element method for a coupled flow-transport problem.*

19.30 COCKTAIL DE BIENVENIDA

3. JUEVES, 4 DE SEPTIEMBRE

[Moderador: F. SANHUEZA]

- 9.30-10.15 ANA ALONSO RODRÍGUEZ, ALBERTO VALLI: *Finite element potentials.*
- 10.15-10.45 MANUEL SOLANO, MUHAMMAD FARYAD, AKHLESH LAKHTAKIA, PETER MONK: *Performance of RCWA and a FE method in simulations of photovoltaic devices.*
- 10.45-11.15 COFFEE BREAK
- 11.15-11.45 IVANA ŠEBESTOVÁ, TOMÁŠ VEJCHODSKÝ: *Lower bounds for principle eigenvalues of elliptic operators.*
- 11.45-12.15 CARLOS JEREZ-HANCKES, CHRISTOPH SCHWAB: *First-order second moment sparse tensor approximation of Maxwell scattering by randomly shaped objects.*
- 12.15-12.45 LUIS HERVELLA-NIETO, PAULA M. LÓPEZ-PÉREZ, ANDRÉS PRIETO: *Error estimates for partition of unity finite element solutions of the Helmholtz equation.*
- 12.45-15.00 ALMUERZO

[Moderador: G. GARCÍA]

- 15.00-15.45 ALFREDO BERMÚDEZ, JULIO GONZÁLEZ-DÍAZ, FRANCISCO J. GONZÁLEZ-DIÉGUEZ, ÁNGEL M. GONZÁLEZ-RUEDA: *Mathematical problems related to gas transportation networks.*
- 15.45-16.15 LEANDRO DEL PEZZO, SANDRA MARTÍNEZ: *Finite element approximation of elliptic problems with non-standard growth conditions.*
- 16.15-16.45 VERÓNICA ANAYA, DAVID MORA, RICARDO OYARZÚA, RICARDO RUIZ-BAIER: *A priori and a posteriori error analysis for a vorticity-based mixed formulation of the generalized Stokes equations.*
- 16.45-17.15 COFFEE BREAK
- 17.15-17.45 ROMMEL BUSTINZA, BIBIANA LÓPEZ-RODRÍGUEZ, MAURICIO OSORIO: *An HDG method for the eddy current problem.*
- 17.45-18.15 NORBERT HEUER, MICHAEL KARKULIK, FRANCISCO-JAVIER SAYAS: *Discontinuous trace approximation in the practical DPG method.*
- 20.00 CENA DE CAMARADERÍA

4. VIERNES, 5 DE SEPTIEMBRE

[Moderador: J. CAMAÑO]

10.00-10.30 CARLO LOVADINA: *Isogeometric methods for thin structures.*

10.30-11.00 GABRIEL ACOSTA, MARÍA GABRIELA ARMENTANO: *Some eigenvalue problems in non-Lipschitz domains.*

11.00-11.30 COFFEE BREAK

11.30-12.00 GALINA GARCÍA, AXEL OSSES, MARCELO TAPIA: *Reconstruction formula for an inverse parabolic source problem.*

12.00-12.30 CLAUDIO PADRA, RODOLFO RODRÍGUEZ, MARIO SCHEBLE: *An hp finite element method to solve a fluid-solid vibration problem.*

12.30-13.00 ANA ALONSO RODRÍGUEZ, ENRICO BERTOLAZZI, RICCARDO GHILONI, ALBERTO VALLI: *A novel implementation of the H -based formulation of the eddy current model.*

13.00-15.00 ALMUERZO