

# CSASC 2013

## Joint Mathematical Conference

of the Catalan Mathematical Society, Slovenian Mathematical Society, Austrian Mathematical Society, Slovak Mathematical Society, and Czech Mathematical Society

Koper, Slovenia, 9 – 13 June 2013

# TIMETABLE – NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS

### Sunday, June 9th .....

12:00 – 13:45 Registration (UP FAMNIT, Glagoljaška 8)

13:45 – 14:00 Opening remarks  
(Lecture Room: FHS - Tramontana)

14:00 – 15:00 **Plenary talk** X. TOLSA: Singular integrals, rectifiability, and the David-Semmes problem  
(Lecture Room: FHS - Tramontana)

15:00 – 15:30 - - - *Coffee* - - -

### Monday, June 10th .....

08:30 – 09:30 **Plenary talk** J. E. FORNAESS: Convexity in Complex Analysis  
(Lecture Room: FHS - Tramontana)

09:30 – 10:00 - - - *Coffee* - - -

12:30 – 14:30 - - - *Lunch* - - -

14:30 – 15:30 **Plenary talk** M. NOY: Zero-one laws for minor-closed classes of graphs  
(Lecture Room: FHS - Tramontana)

15:30 – 16:00 - - - *Coffee* - - -

20:00 – Welcome Reception (Muzej, Kidričeva ulica 19)

### Tuesday, June 11th .....

08:30 – 09:30 **Plenary talk** I. MIZERA: Borrowing Strength via Shape Constraints and Convex Optimization  
(Lecture Room: FHS - Tramontana)

09:30 – 10:00 - - - *Coffee* - - -

12:30 – 14:00 - - - *Lunch* - - -

14:00 – 14:30 W. NAETER: Quantitative photoacoustic imaging  
(Lecture Room: FAMNIT-VP)

14:30 – 15:00 T. WIDLAK: Stability in Dynamic Elastographic Imaging  
(Lecture Room: FAMNIT-VP)

15:00 – 15:30 P. KUTIK: Numerical methods for the Heston model  
(Lecture Room: FAMNIT-VP)

15:30 – 16:00 - - - *Coffee* - - -

16:00 – 16:30 P. FROLKOVIČ: Flux-based level set method  
(Lecture Room: FAMNIT-VP)

17:00 – Conference excursion

### Wednesday, June 12th .....

08:30 – 09:30 **Plenary talk** G. ROTE: Congruence testing of point sets in three and four dimensions  
(Lecture Room: FHS - Tramontana)

09:30 – 10:00 - - - *Coffee* - - -

12:30 – 14:30 - - - *Lunch* - - -

14:30 – 15:30 **Plenary talk** G. TESCHL: Peakon asymptotics for the dispersionless Camassa-Holm equation  
(Lecture Room: FHS - Tramontana)

15:30 – 16:00 - - - *Coffee* - - -

16:00 – 16:30 F. GUERRERO: IMEX methods for models for vertical equilibrium multiphase flow  
(Lecture Room: FAMNIT-VP)

16:30 – 17:00 A. HIDALGO: A high order finite volume scheme for the numerical solution of an atherosclerosis model

(Lecture Room: FAMNIT-VP)

17:00 – 17:30 M. MARTÍ RAGA: Analysis of component-wise finite difference WENO schemes for conservation laws

(Lecture Room: FAMNIT-VP)

17:30 – 18:00 F. VECIL: A semi-Lagrangian AMR scheme for 2D transport problems in conservation form

(Lecture Room: FAMNIT-VP)

20:00 – Conference Dinner (Skipper)

**Thursday, June 13th** .....

08:30 – 09:30 **Plenary talk** P. MORAVEC: Bogomolov multipliers of groups

(Lecture Room: FHS - Tramontana)

09:30 – 10:00 - - - *Coffee* - - -

10:00 – 10:30 M. REMESIKOVA: Evolution of surfaces with tangential redistribution of points

(Lecture Room: FAMNIT-VP)

10:30 – 11:00 A. HANDLOVIČOVA: Discrete duality finite volume scheme for numerical solution of regularized level set equation

(Lecture Room: FAMNIT-VP)

11:00 – 11:30 R. ČUNDERLÍK: Method of fundamental solutions for gravity field modelling of the Earth

(Lecture Room: FAMNIT-VP)

11:30 – 12:30 P. MULET-MESTRE: IMEX methods for diffusively corrected multi-species kinematic flow models

(Lecture Room: FAMNIT-VP)