

CASC 2018 Schedule

	Monday 17	Tuesday 18	Wednesday 19	Thursday 20	Friday 21
08h00-09h00	Welcome / registration	Welcome / registration			
			Software Session		Symbolic-Numeric Session
09h00-09h30	Tutorial of N. Verdière (Lilliad Amphi B)	Invited Talk of M. Monagan	17	Invited Talk of M. Kibler	7
09h35-10h05			26		4
10h10-10h30		coffee break	coffee break	coffee break	coffee break
		Real and Integer Solving Session	Algebraic Methods Session	Groups and Complexity Session	Combinatorics Session
10h30-11h00	Tutorial of N. Verdière (M5 A15)	22	18	6	12
11h05-11h35		25	20	11	3
11h35-12h10		24	27	13	28
12h30-13h45	Lunch at University Restaurant Sully				End of the conference
		Tropical Session			
14h00-14h30	Tutorial of M. Moreno Maza (M3 Turing)	1	Excursion and Social Dinner in the French Flanders. Departure at the parking lot of M3 (14h00). Return at the Quatre Cantons subway station (22h15)	New Features in Maple 2018	
14h35-15h05		2			
15h10-15h30	coffee break	coffee break		coffee break	
		Polynomial Solving Session			Physics Session
15h30-16h00	Tutorial of M. Moreno Maza (M3 Turing)	9		5	
16h05-16h35		8		14	
16h40-17h10		23		16	
17h30-19h00	Reception (M3 Salle du Conseil)	Business meeting (Room C)			

CASC 2018 Schedule

Tuesday

Invited Talk Michael Monagan

Polynomial GCD Computation with Sparse Interpolation

Symbolic-Numeric Session (1/2)

7 Francois Boulier, H el ene Castel, Nathalie Corson,
Valentina Lanza, Fran ois Lemaire, Adrien Poteaux, Alban
Quadrat and Nathalie Verdi ere Symbolic-Numeric Methods for Nonlinear Integro-Differential Modeling

Real and Integer Solving Session

22 Changbo Chen and Wenyan Wu A Continuation Method for Visualizing Planar Real Algebraic Curves with Singularities
25 Hoon Hong and Thomas Sturm Positive Solutions of Systems of Signed Parametric Polynomial Inequalities
24 Jos e Manuel Jim enez Cobano, Mar a Isabel Hartillo
Hermoso and Jos e Mar a Ucha Enr iquez Finding Multiple Solutions in Nonlinear Integer Programming with Algebraic Test-sets

Tropical Session

1 Dima Grigoriev Tropical Newton-Puiseux polynomials
2 Dima Grigoriev and Nicolai Vorobjov Orthogonal tropical linear prevarieties

Polynomial Solving Session

9 Tateaki Sasaki A Theory and an Algorithm for Computing Sparse Multivariate Polynomial Remainder
Sequence
8 Jan Verschelde A Blackbox Polynomial System Solver on Parallel Shared Memory Computers
23 Yuki Ishihara and Kazuhiro Yokoyama Effective Localization Using Double Ideal Quotient and Its Implementation

Wednesday

Software Session

17 Hiromi Ishii Purely Functional Computer Algebra System Embedded in Haskell
26 Mohammadali Asadi, Alexander Brandt, Robert Moir and
Marc Moreno Maza Sparse Polynomial Arithmetic with the BPAS Library

Algebraic Methods Session

18 Hoda Binaei, Amir Hashemi and Werner M. Seiler Computation of Pommaret Bases Using Syzygies
20 Sergei Abramov and Denis Khmelnov On unimodular matrices of difference operators
27 Michael Monagan and Baris Tuncer Factoring Multivariate Polynomials with Many Factors and Huge Coefficients

CASC 2018 Schedule

Thursday

Invited Talk Maurice Kibler

Quantum information and quantum computing: an overview and some mathematical aspects

Groups and Complexity Session

6 Vladimir Kornyak

Splitting Permutation Representations of Finite Groups by Polynomial Algebra Methods

11 Algirdas Deveikis, Alexander Gusev, Vladimir Gerdt, Sergue Vinitsky, Andrzej Gozdz and Aleksandra Pedrak

Symbolic Algorithm for Generating of Orthonormal Bargmann and Moshinsky Basis for SU(3) group

13 Timur Sadykov

Beyond the First Class of Analytic Complexity

Sponsor Talk

New Features in Maple 2018

Applications to Physics Session

5 Yury Blinkov, Vladimir Gerdt, Dmitry Lyakhov and Dominik Michels

A Strongly Consistent Finite Difference Scheme for Steady Stokes Flow and its Modified Equations

14 Valentin Irtegov and Tatiana Titorenko

Qualitative Analysis of a Dynamical System with Irrational First Integrals

16 Alexander Gusev, Vladimir Gerdt, Ochbadrakh Chuluunbaatar, Galmandakh Chuluunbaatar, Sergue Vinitsky, Vladimir Derbov, Andrzej Gozdz and Pavel Krassovitskiy

Symbolic-Numerical Algorithms for Solving Elliptic Boundary-Value Problems Using Multivariate Simplex Lagrange Elements

Friday

Symbolic-Numeric Session (2/2)

4 Sergey Gutnik and Vasily Sarychev

Symbolic-Numeric Simulation of Satellite Dynamics with Aerodynamic Attitude Control System

Combinatorics Session

12 Pavel Emelyanov and Denis Ponomaryov

On Polytime Algorithm for Factorization of Multilinear Polynomials over F_2

3 Annie Cuyt, Ferre Knaepkens, and Wen-shin Lee

From exponential analysis to Padé approximation and tensor decomposition, in one and more dimensions

28 Gerard H.E. Duchamp, Vincel Hoang Ngoc Minh and Karol Penson

Computation of some Drinfel'd associators