

	Monday, Aug 31.	Tuesday, Sep 1.	Wednesday, Sep 2.	Thursday, Sep 3.	Friday, Sep 4
9:00 - 9:30	Coffee break				
9:30-10:00	Registration & Opening	Session Chair: TBA Kyle Goosey and Ali Kemal Uncu Customised monomial ordering for Gröbner basis computations	Session Chair: TBA Hao Du and Haoshen Liu On Sub-algorithm selection for symbolic integration	Session Chair: TBA Qiwei Feng and Yang Zhang Involutions on skew polynomial rings	Session Chair: TBA Guillaume Moroz Revisiting numerical factorization of real univariate polynomials
10:00 - 10:30		Joshua Woolaghan and Ali Kemal Uncu Finding more optimal weighted orderings for Gröbner basis computation using machine learning	Bertrand Tegula Tabugula Subsequences and rational recursions for solutions of polynomial difference equations	Mark Giesbrecht Factoring quantum plane skew polynomials over $\mathbb{Q}[q^{1/2}]$	Rikita Komatsuaki, Akira Terui, and Masahiko Miwa Inverse kinematics for a 7-degree-of-freedom robot manipulator using comprehensive Gröbner systems
10:30-11:00		Coffee break			
11:00-11:30	Session Chair: TBA Katsusuke Nabeshima and Shinichi Taima Testing tameness of complex polynomial mappings and computing their bifurcation sets	Session Chair: TBA Nicolas Forêt and Thomas Sturm Pseudo-complex quantifier elimination	Session Chair: TBA Joris Van der Hoeven, Grégoire Lecarf, and Arnaud Minéode Short SLPs for sparse polynomial maps	Session Chair: TBA Mark Giesbrecht Computing Smith forms modulo p^2 of sparse matrices faster than matrix multiplication	Session Chair: TBA Denis Arzierel, Florent Bréhard, Miara Joldes, and Jean-Bernard Lasserre Gauss-and-prove Newton-Kronecker certification for multivariate Chebyshev approximation
11:30-12:00	Thi Xuan Vu Symbolic homotopy techniques for structured multivariate polynomial systems	James H. Davenport, Matthew England, and Scott McCallum Enhanced CAD-based quantifier elimination with multiple equational constraints	Carsten Schneider On symbolic summation in difference rings	Yuki Ishihara Efficient techniques for primary decomposition of symmetric ideals	Joseph Tooby-Smith Physics as code: From scans to theorems with ITP APIs in $SU(5)$ model building
12:00 - 12:30		Rui-Juan Jing, Yuzhuo Lei, Marc Moreno Maza, and Chirantan Mukherjee On the computation of extended convex hulls		Ryo Negishi A note on the uni-root formula for Montgomery curves	
12:30-14:00	Lunch break				
14:00-14:30	Session Chair: TBA François Boulier Some developments related to the Demmel-Spitz algorithm	Session Chair: TBA Lucas Michel, Naim Zenaidi, and Pierre Mathonet On semi-algebraic sets admitting a minimum adapted CAD	Conference Photo	Session Chair: TBA Ali Kemal Uncu and Thieu Vo Autonomous first-order algebraic q -difference equations and their rational solutions	Session Chair: TBA Guangping Yu, Stef Gralliat, Hao Jiang, Chun Huang, and Tao Tang A compensated Euler scheme for accurate polynomial evaluation
14:30-15:00	Victor Edneral Application of the HORB computer algebra package for reducing dynamical systems of ODEs to the normal form	Jiaqi Meng and Jing Yang A complete generalization of Hilbert's theorem for subalgebras of several univariate indeterminates	Excursion	Oleg Kovalov, Alexander Gusev, Le Hai Luong, Vladimir Derbov, Sergue Vinitzky, and Peiwei Wen Symbolic-numerical algorithms for solving boundary value problems by finite element method on hypercuboids	Tian Chen and Michael Monagan Accelerating the factorization of multilinear boolean polynomials
15:00-15:30	François Lemaire and Louis Roussel A parametric differential system admitting an integral input-output equation with a fraction	MapleSoft What is new in Maple?		Wolfram What is new in Mathematica?	Amir Abbas Asgari, Haiyang He, Michael Jacobson, and Renate Scheldier Computer generation of explicit formulas for hypergeometric curve divisor arithmetic
15:30-16:00	Coffee break			Coffee break	
16:00-16:30	Session Chair: TBA Eugenia Maria Betsinis and Zafeiakis Zafeiropoulos Sparse multivariate interpolation and rational generating functions of polyhedra	Session Chair: TBA Michael Monagan Computing over algebraic number fields	Business Meeting	Closing	Session Chair: TBA Victor Y. Pan New combinations of polynomial root-finding iterations
16:30-17:00	Uzma Shafiq, Matthew England, Amir Hossain Sadeghimanesh, and Nayyar Zaidi Letting homogeneity entropy select 5-pairs in Buchberger's algorithm	Stephen Watt Look below you legs: Checking in on type tag checking			
17:00-17:30	Ryusel Matsubayashi and Kosaku Nagasaka GCDHEU revisited: correctness in multivariate case and degree-aware variable ordering	Martin Marchiori, Aske Raahauge, Mark Levenskjöld, Cosmin Oancea, and Stephen Watt On GPU implementation for multi-precision integer division			