CASC 2019 Schedule. Venue: Zatsepa 41, Moscow, Russia

	Monday August 26	Tuesday August 27	Wednesday August 28	Thursday August 29	Friday August 30
08h00-09h00	Registration and Opening				
09h00-09h30	**Greg Reid, Zahra Mohammadi, S.-L. Tracy Huang** Extension of the MapDE algorithm for mappings	**Chee Yap** Towards soft exact computation	**Victor Y. Pan** Old and new nearly optimal polynomial root-finders	**Stanislav Poslavsky** An efficient JVM library for commutative algebra	**Semjon Adlaj** An arithmetic-geometric mean of a third kind!
09h35-10h05	**Alexander Batkhin** Bifurcations of doubly symmetric periodic solutions to Hamiltonian system with 2 degrees of freedom		**Elizabeth Kalinina, Yuri Smol'kin, Alexei Uteshev** Robust schur stability of a polynomial matrix family		**Vladimir Kornyak** An algorithm for computing invariant projectors in representations of wreath products
10h05-10h30	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
10h30-11h00	**François Boulier, François Lemaire, Adrien Poteaux, Marc Moreno Maza** A short contribution to the theory of regular chains	**Vladimir Gerdt, Yuri Blinkov, Ilya Pankratov, Ekaterina Kotkova** Construction of a new implicit difference scheme for 2D Boussinesq paradigm equation	**Vitaly Zaderman, Liang Zhao** Counting roots of a polynomial in a convex compact region by means of winding number calculation via sampling	**Rina Dong, Chenqi Mou** On characteristic decomposition and quasi-characteristic decomposition	**Amir Hashemi, Mahsa Kazemi** Parametric standard bases and their applications
11h05-11h35	**Youren Hu, Xiao-Shan Gao** Tropical differential groebner basis	**Christoph Lüders, Hassan Errami, Satya S. Samal, Matthias Neidhardt, Andreas Weber** ODEbase: an extensible database providing algebraic properties of dynamical systems	**Qiao-Long Huang, Xiao-Shan Gao** Revisit sparse polynomial interpolation based on randomized Kronecker substitution	**Clemens G. Raab, Georg Regensburger, Jamal Hossein Poor** Interpreting algebraic proofs of operator identities	**Harald Hofstätter, Winfried Auzinger, Othmar Koch** An algorithm for computing coefficients of words in expressions involving exponentials and its application to the construction of exponential integrators
11h40-12h10	**Shinichi Tajima, Katsusuke Nabeshima** An algorithm for computing torsion differential forms associated to an isolated hypersurface singularity	**Mikhail Malykh, Edik Ayryan, Leonid Sevastianov, Yu Ying** On explicit difference schemes for autonomous systems of differential equations on manifolds	**Remi Imbach, Victor Y. Pan, Chee Yap, Ilias Kotsireas, Vitaly Zaderman** Root-finding with Implicit deflation	**Nikolay Osipov, Sergey Dalinkevich** An algorithm for solving a quartic diophantine equation satisfying Runge's condition	**Zhenbing Zeng, Liangyu Chen** Determining the Heilbronn configuration of seven points in triangles via symbolic computation
12h10-14h00	Lunch	Lunch	Lunch	Lunch	Lunch
14h00-14h30	**Chenqi Mou, Xiaolin Fan** On Berlekamp–Massey and Berlekamp–Massey–Sakata algorithms	**Jose Cano, Sebastian Falkensteiner, Rafael Sendra** Formal Puiseux series solutions of first order autonomous algebraic ordinary differential equations	Excursion and Social Dinner	**Sergey Gutnik, Vasily Sarychev** Symbolic investigation of the dynamics of a system of two connected bodies moving along a circular orbit	**Ilias Kotsireas, Youtong Liu, Jing Yang** PAF reconstruction with the orbits method
14h35-15h05	**Katsusuke Nabeshima, Shinichi Tajima** Testing zero-dimensionality of varieties at a point	**Werner M. Seiler, Matthias Seiss, Thomas Sturm** A logic based approach to finding real singularities of implicit ordinary differential equations		**Jose Capco, Saraleen Mae Manongsong** Implementing hupf algorithm for the inverse kinematics of general 6R/P manipulators	**Dima Grigoriev, Thomas Sturm, Andreas Weber** The complexity of recognizing toricity of a variety
15h10-15h40	**Anastasiia Tiutiunnik, Dmitriy Divakov, Mikhail Malykh, Leonid Sevastianov** Symbolic-numeric implementation of the four potential method for calculating normal modes: an example of square electromagnetic waveguide with rectangular insert	**Vitaliy Krasikov** Analytic complexity of hypergeometric functions satisfying systems with holonomic rank two		**Evgenii Vorozhtsov, Vasily Shapeev** A divergence-free method for solving the incompressible Navier-Stokes equations on non-uniform grids and its symbolic-numeric implementation	**Sergey Bruskin, Nikolay Golov, Alexander Filatov** Algorithm for exact calculation of millions hierarchical count distinct measures
15h45-16h15	**Andrei Banshchikov** Obtaining and analysis of the necessary conditions of stability of orbital gyrostat by means of computer algebra	**Algirdas Deveikis, Alexander Gusev, Vladimir Gerdt, Sergue Vinitsky, Andrzej Gozdz, Aleksandra Pedrak, Cestmir Burdik** Symbolic-numerical algorithm for large scale calculation of the orthonormal SU(3) BM basis		**Valentin Irtegov, Tatiana Titorenko** On linear invariant manifolds in the generalized problem of motion of a top in a magnetic field	**Changbo Chen, Wenyuan Wu** A numerical and geometrical method for solving parametric biological networks by exploiting block triangular structure: case studies
16h15-16h40	Coffee Break	Coffee Break		Coffee Break	Coffee Break
16h40-17h10	**Dmitriy Divakov, Anton Sevastianov** The implementation of the symbolic-numerical method for finding the adiabatic waveguide modes of integrated optical waveguides in CAS Maple	**Raffaele Vitolo** CDE: calculus on differential equations - a Reduce package		**Amir Hashemi, Hossein Parnian, Werner M. Seiler** Degree upper bounds for involutive bases	**Alexey Kasatkin, Aliya Gainetdinova** Symbolic and numerical methods for searching symmetries of ordinary differential equations with a small parameter and reducing its order
17h15-17h45		**Chee Yap, Rémi Imbach, Marc Pouget** Clustering complex zeros of triangular system of polynomials		Business Meeting	