



# The 9th International Conference on Differential and Functional Differential Equations



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**PROGRAM**  
Moscow, Russia,  
June 28 – July 5, 2022

# The 9th International Conference on Differential and Functional Differential Equations

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## **List of 45-minute Lecturers:**

O.N. Ageev, A.A. Amosov, A.I. Aptekarev, M. Ben-Artzi, G.A. Bocharov, H.G. Bock, V.M. Buchstaber, G. Crasta, A.A. Davydov, S.Yu. Dobrokhotov, Yu.A. Dubinskii, F. Golse, V.Z. Grines, A.N. Karapetyants, S.B. Kuksin, G.G. Lazareva, K. Lee, A.V. Mikhailov, V.E. Nazaikinskii, A.I. Neishtadt, S.P. Novikov, P.I. Plotnikov, A.I. Shafarevich, I. Shafrir, A.E. Shishkov, A.A. Shkalikov, T.A. Suslina, I.A. Taimanov, D.V. Treschev, Yu.V. Vassilevski, L. Véron, V.V. Vlasov, V.A. Volpert, R. Yang.

# Wednesday, June 29

9:00–11:00 **Registration**

## Conference Hall, 2<sup>nd</sup> Floor

### Coffee break

11:00–11:30 **Opening ceremony**

11:30–12:15 S. P. Novikov, “Nonlinear waves and solitons”

12:25–13:10 D. V. Treschev, “Linearization by means of function parameter”

13:20–14:05 L. Véron, “Boundary singular problems for mixed quasilinear equations” (*online*)

### Lunch

15:20–16:05 R. Yang, “Maxwell’s equations and Yang–Mills equations in complex variables” (*online*)

16:15–16:45 V. V. Vedenyapin, N. N. Fimin, V. M. Chechetkin, “Derivation of the equations of electrodynamics and gravitation from the Hilbert–Einstein–Pauli principle of least action”

16:55–17:25 N. V. Chemetov, A. Mazzucato, “Motion of rigid bodies in a viscous fluid with collisions and slippage” (*online*)

17:35–18:05 Kh. G. Umarov, “Blow-up and global solvability of the Cauchy problem for the equation of nonlinear long longitudinal waves in a viscoelastic rod”

18:15–18:45 E. M. Rudoy, “Justification of models of plates containing hard thin inclusions inside”

19:00–21:30 **Reception**

## Auditorium 527, 5<sup>th</sup> Floor

- 16:15–16:45 S.E. Pastukhova, “Improved resolvent approximations in homogenization of higher order elliptic operators”
- 16:55–17:25 A.A. Arkhipova, “Local regularity of weak solutions to a class of strongly nonlinear parabolic systems”
- 17:35–18:05 M.B. Zvereva, M.I. Kamenskii, “On mathematical models with nonlinear boundary condition”
- 19:00–21:30 **Reception**

## Auditorium 528, 5<sup>th</sup> Floor

- 16:15–16:45 P.B. Dubovski, M. Tamarov, “Asymptotics for Volterra equations with advanced variable” (*online*)
- 16:55–17:25 E.P. Kubyskin, “Bifurcation analysis of periodic solutions to a nonlinear functional differential equation with a small parameter at the derivative”
- 17:35–18:05 I.S. Kashchenko, “Bifurcations in second-order differential equations with delay”
- 19:00–21:30 **Reception**

## Auditorium 629, 6<sup>th</sup> Floor

- 16:15–16:45 V. E. Fedorov, “On generation of resolving family of operators for distributed order differential equations”
- 16:55–17:25 Ya. A. Butko, “Subordination principle and Feynman–Kac formulae for generalized time-fractional evolution equations” (*online*)
- 19:00–21:30 **Reception**

## Auditorium 630, 6<sup>th</sup> Floor

- 16:15–16:45 S. Piskarev, “Fractional differential equations and their approximations”
- 16:55–17:25 M. T. Kosmakova, M. I. Ramazanov, “On an integral equation for fractionally loaded boundary-value problem of heat conduction”
- 17:35–18:05 V. G. Kurbatov, V. I. Kurbatova, “Estimates of Green’s function of the bounded solutions problem”
- 18:15–18:35 M. V. Plekhanova, E. M. Izhberdeeva, “Solvability of a linear degenerate equation with the Dzhrbashyan–Nersesyan derivative”
- 19:00–21:30 **Reception**

# Thursday, June 30

## Conference Hall, 2<sup>nd</sup> Floor

10:00–10:45 I. A. Taimanov, “Singularities of solutions to soliton equations represented by  $L, A, B$ -triples and the zero level discrete spectra of  $L$ -operators”

10:55–11:40 G. G. Lazareva, “Mathematical modeling of melt rotation under the influence of impulse loads”

### Coffee break

12:00–12:45 A. I. Aptekarev, “Multiple orthogonal polynomials with respect to Hermite weights: application and asymptotics” (*online*)

12:55–13:40 S. Yu. Dobrokhotov, A. V. Tsvetkova, “Effective Plancherel–Rotach type asymptotics of 2-D Hermitian orthogonal polynomials. The semiclassical approach”

### Lunch

15:10–15:55 Yu. A. Dubinskii, “On some nonlocal problems of field theory on the plane” (*online*)

16:05–16:35 D. I. Borisov, A. I. Mukhametrakhimova, “On operator estimates for elliptic operators in perforated domains”

16:45–17:15 L. M. Kozhevnikova, A. P. Kashnikova, “On solutions of nonlinear elliptic equations with  $L_1$ -data in unbounded domains”

### Coffee break

17:35–18:05 A. Poliakovsky, “Some remarks on a formula for Sobolev norms due to Brezis, Van Schaftingen, and Yung” (*online*)

18:15–18:35 K. N. Zhuikov, “On the index of differential-difference operators in an infinite cylinder”

18:45–19:05 A. V. Boltachev, A. Yu. Savin, “On index of elliptic boundary-value problems associated with isometric group actions”

## Auditorium 527, 5<sup>th</sup> Floor

- 15:10–15:55 G. A. Bocharov, D. S. Grebennikov, R. S. Savinkov, “Mathematics for immunology”
- 16:05–16:25 V. E. Fedorov, N. V. Filin, “Cauchy problem for one class of equations with distributed fractional Gerasimov–Caputo derivative”
- 16:45–17:05 D. A. Neverova, “Mathematical modelling of immunodominance”

### Coffee break

- 17:35–17:55 V. V. Zaitsev, “Estimate of the impact of uncontrollable factors on a (quasi)dynamic system”
- 18:15–18:35 I. N. Maslenikov, “Local dynamics of a second-order equation with a delay in the derivative”

## Auditorium 528, 5<sup>th</sup> Floor

- 15:10–15:55 V. Z. Grines, “On the coexistence of hyperbolic basic sets of dynamical systems”
- 16:05–16:35 M. L. Blank, “Shadowing property re(al)visited” (*online*)

### Coffee break

- 17:35–18:05 N. Yu. Saburova, “Estimates of total bandwidth for Schrödinger operators on periodic graphs”
- 18:15–18:35 M. N. Demchenko, “A characterization of the space of divergence-free vector fields from BMO based on the paradifferential operator calculus”
- 18:45–19:05 A. A. Kashchenko, “Nonlocal dynamics of a model of coupled oscillators with large parameter and delay”

## Auditorium 629, 6<sup>th</sup> Floor

- 15:10–15:55 A. N. Karapetyants, “On certain new classes of integral operators in complex analysis”
- 16:05–16:35 S. I. Bezrodnykh, “Multiple hypergeometric functions and applications”
- 16:45–17:15 V. P. Leksin, “Classical hypergeometric functions and Jordan–Pochhammer systems”

### Coffee break

- 17:35–18:05 D. V. Artamonov, “Antisymmetrized Gelfand–Kapranov–Zelevinskij systems”
- 18:15–18:35 K. V. Boyko, “Degenerate linear equation with several Gerasimov–Caputo fractional derivatives”
- 18:45–19:05 T. A. Zakharova, “Initial problem for a degenerate quasilinear equation with Gerasimov–Caputo derivatives”

## Auditorium 630, 6<sup>th</sup> Floor

- 15:10–15:55 T. A. Suslina, “Homogenization of nonstationary Schrödinger-type equations”
- 16:05–16:35 A. Yu. Savin, K. N. Zhuikov, “Eta-invariants for  $G$ -operators”

### Coffee break

- 17:35–18:05 A. E. Merzon, P. N. Zhevandrov, J. E. De La Paz Mendez, “Exact solution of the BVP for the Helmholtz equation in a nonconvex angle with periodic boundary data” (*online*)
- 18:15–18:35 M. A. Dorodnyi, “Homogenization of nonstationary periodic equations at the edge of a spectral gap”
- 18:45–19:05 N. R. Izvarina, A. Yu. Savin, “On elliptic complexes in relative elliptic theory”



# Friday, July 1

## Conference Hall, 2<sup>nd</sup> Floor

- 10:00–10:45 A. A. Shkalikov, “Half-range problem in operator theory”  
10:55–11:40 G. Crasta, I. Fragala, “Concavity properties of solutions to Robin problems”

### Coffee break

- 12:00–12:45 S. B. Kuksin, “Kolmogorov’s theory of turbulence and its rigorous one-dimensional analogy” (*online*)  
12:55–13:40 F. Golse, “Partial regularity in time for the Landau equation” (*online*)

### Lunch

- 15:10–15:40 J. Batt, E. Jörn, A. L. Skubachevskii, “Stationary spherically symmetric solutions of the Vlasov–Poisson system depending on local energy”  
15:50–16:20 B. Gebhard, “On the Rayleigh–Taylor instability” (*online*)  
16:30–17:00 P. Knopf, J. Weber, “The two and one-half dimensional Vlasov–Poisson system: well-posedness and stability of confined steady states” (*online*)  
17:10–17:30 Ju. Belyaeva, B. Gebhard, A. L. Skubachevskii, “On some examples of stationary solutions to the Vlasov–Poisson equations in a finite cylinder”  
17:40–18:00 M. L. Zaytsev, “Peculiarity of solutions of Laplace equation as applied to the problem of describing the motion of a hydrodynamic discontinuity in a potential and incompressible flow in an external region”  
18:10–18:30 D. S. Minenkov, M. M. Votiakova, “Asymptotics of the 1D shallow water equations in the form of running waves in a basin with variable bottom with vertical and gentle walls”

- 19:00–23:00 **Banquet**

## Auditorium 527, 5<sup>th</sup> Floor

- 15:10–15:40 L. E. Rossovskii, A. A. Tovsultanov, “Functional differential equations with dilation and symmetry”
- 15:50–16:20 N. A. Rautian, “Semigroup approach to studying Volterra integro-differential equations arising in viscoelasticity theory”
- 16:30–17:00 A. B. Muravnik, “Elliptic differential-difference equations with nonorthogonal translations in half-spaces”
- 17:10–17:30 E. P. Ivanova, “Elliptic differential-difference equations with finite and infinite boundaries traces”
- 17:40–18:00 V. V. Liiko, “Mixed boundary-value problems for elliptic differential-difference equations in a bounded domain”
- 18:10–18:30 N. V. Zaitseva, “Smooth solutions of hyperbolic differential-difference equations in a half-space”
- 19:00–23:00 **Banquet**

## Auditorium 528, 5<sup>th</sup> Floor

- 15:10–15:40 S. N. Askhabov, “Second-order integro-differential equation with difference kernels and inhomogeneity in the linear part”
- 15:50–16:20 V. V. Malygina, “Estimation of the exponent of stable solutions to functional differential equations”
- 16:30–17:00 K. M. Chudinov, “Oscillation conditions for solutions to first-order delay differential equations”
- 17:10–17:30 A. Sh. Adkhamova, “Krasovskii damping problem for a multidimensional control system of retarded type”
- 17:40–18:00 N. O. Ivanov, “Smoothness of generalized solutions of the second boundary-value problem for differential-difference equations on an interval of non-integer length”
- 18:10–18:30 R. Yu. Vorotnikov, “Spectral properties of differential-difference operators on a finite interval”
- 19:00–23:00 **Banquet**

## Auditorium 629, 6<sup>th</sup> Floor

- 15:10–15:40 D. E. Apushkinskaya, “A posteriori estimates for obstacle problems”
- 15:50–16:20 A. A. Kovalevsky, “Variational problems with measurable bilateral constraints in variable domains”
- 16:30–17:00 D. Chalishajar, “Controllability of nonlinear third-order dispersion equation” (*online*)
- 17:10–17:30 A. Balci, “Analysis and numerics for (non)local models and differential forms with Lavrentiev gap: beyond regularity” (*online*)
- 17:40–18:00 R. K. Gaydukov, V. G. Danilov, “Modeling of phase transitions in moving media”
- 18:10–18:30 K. A. Darovskaya, “On a posterior error estimates for a biharmonic obstacle problem”
- 19:00–23:00 **Banquet**

## Auditorium 630, 6<sup>th</sup> Floor

- 15:10–15:40 V. G. Danilov, “Nonsmooth nonoscillating generalized solution to forward and backward in time Cauchy problem for Kolmogorov–Fokker–Plank equation”
- 15:50–16:20 L. A. Kalyakin, “Perturbation of simple wave”
- 16:30–17:00 S. A. Kashchenko, D. O. Loginov, “Andronov–Hopf bifurcation in a logistic equation with delay, diffusion and rapidly oscillating coefficients” (*online*)
- 17:10–17:40 A. V. Razgulin, “Bound rates for convergence of FEM in the problem of wavefront reconstruction from its slope measurements with fractional order stabilizer”
- 17:50–18:10 V. A. Kozhevnikov, E. G. Apushkinskiy, A. M. Biryukov, “Comparison of numerical methods for solving the homogeneous Dirichlet problem for the Helmholtz equation in an arbitrary domain”
- 19:00–23:00 **Banquet**

# Saturday, July 2

## Conference Hall, 2<sup>nd</sup> Floor

10:00–10:45 M. Ben-Artzi, “From crystals to Dirac operators spectral theory” (*online*)

10:55–11:40 V. E. Nazaikinskii, “Effective quasiclassical asymptotics”

### Coffee break

12:00–12:45 H. G. Bock, “Inverse optimal control problems and application to modeling the gait of cerebral palsy patients” (*online*)

12:55–13:40 I. Shafrir, D. Golovaty, “Minimizers of a variational problem for nematic liquid crystals with variable degree of orientation in two dimensions” (*online*)

### Lunch

15:10–15:40 T. A. Shaposhnikova, “Boundary optimal control and homogenization: critical case”

15:50–16:20 E. I. Galakhov, O. A. Salieva, “Nonexistence of solutions for some nonlinear inequalities with transformed arguments in a half-space”

16:30–17:00 E. Kalita, “Nonlinear elliptic equations of nonstrictly divergent form and subcoercive operators”

### Coffee break

17:20–17:40 S. S. Postnov, “Optimal control problems for linear fractional-order equations under different definitions of fractional integro-differential operators”

17:50–18:10 M. Denche, O. Zibouche, “On a class of transmission boundary value problems with integral boundary conditions” (*online*)

## Auditorium 527, 5<sup>th</sup> Floor

- 15:10–15:40 V. P. Burskii, “Weak solutions of boundary value problems for general quasilinear PDEs”
- 15:50–16:20 V. Zh. Sakbaev, A. D. Shiryayeva, “Nonlinear Schrödinger equation with delay and its regularization”
- 16:30–17:00 I. F. Lezhenina, “On an estimate for the resolvent of one operator generated by a second-order differential equation with nonlocal conditions”

### Coffee break

- 17:20–17:40 N. Srivastava, V. K. Singh, “A new numerical approximation of Caputo fractional derivative and its applications” (*online*)
- 17:50–18:10 M. M. Turov, “Quasilinear equations with several Riemann–Liouville derivatives in the sectorial case”

## Auditorium 528, 5<sup>th</sup> Floor

- 15:10–15:40 T. N. Fomenko, “Application of the cascade search principle for zeros of functionals to the solution of one-parametric families of equations with multivalued operators”
- 15:50–16:20 P. Bonicatto, N. A. Gusev, “Weak superposition principle for signed measure-valued solutions of the continuity equation”
- 16:30–17:00 N. V. Artamonov, “Solvability of an operator Riccati integral equation in a reflexive Banach space”

### Coffee break

- 17:20–17:40 D. M. Polyakov, “Spectral asymptotics for fourth-order differential operator”
- 17:50–18:10 S. V. Tikhov, D. V. Valovik, “Integral characteristic equation method to solve a nonlinear eigenvalue problem”

## Auditorium 629, 6<sup>th</sup> Floor

- 15:10–15:40 A. Ashyralyev, C. Ashyralyev, “The second order of accuracy difference schemes for integral type time-nonlocal parabolic problems” (*online*)
- 15:50–16:20 A. Kuznetsov, E. Shishkina, “Random motion in arbitrary direction: analytical model and simulation”
- 16:30–17:00 M.V. Bulatov, E.V. Markova, “Collocation-variational approaches to solving Volterra integral equations of the first kind”

### Coffee break

- 17:20–17:40 L.S. Solovarova, M.V. Bulatov, “Collocation-variational approach for solving differential-algebraic equations” (*online*)
- 17:50–18:10 E.K. Kulikov, A.A. Makarov, “On refinement of the spline-collocation method for solving some integral equations”

# Sunday, July 3

## Conference Hall, 2<sup>nd</sup> Floor

- 10:00–10:45 O. N. Ageev, “On realizations of dynamical systems”  
10:55–11:40 Yu. Vassilevski, A. Danilov, A. Lozovskiy, M. Olshanskii, “Stable numerical schemes for modelling incompressible fluid flows in time-dependent domains”

### Coffee break

- 12:00–12:45 V. V. Vlasov, “Spectral analysis of Volterra integro-differential equations and associated semigroups of operators”  
12:55–13:40 A. I. Neishtadt, “On destruction of adiabatic invariance” (*online*)

### Lunch

- 15:10–15:55 V. A. Volpert, “Mathematical modelling of respiratory viral infections”  
16:05–16:35 S. Sh. Maity, S. Pal, “Role of space in an eco-epidemic predator-prey system with the effect of fear and selective predation” (*online*)  
16:45–17:15 C. A. Morales, “On neural network trainings” (*online*)

### Coffee break

- 17:35–17:55 M. Khristichenko, Yu. Nechepurenko, D. Grebennikov, G. Bocharov, “Computation and tracing of stationary solutions of Marchuk–Petrov model”  
18:05–18:25 M. Fahimi, K. Nouri, L. Torkzadeh, “A hybrid stochastic fractional order coronavirus mathematical model via the reservoir-people transmission network”

## Auditorium 527, 5<sup>th</sup> Floor

- 15:10–15:55 A. A. Davydov, “Optimal cyclic exploitation of distributed renewable resource with diffusion” (*online*)
- 16:05–16:35 M. V. Yashina, A. G. Tatashev, “The spectrum of velocities of flows on open and closed chains as continuous or discrete dynamical systems”
- 16:45–17:15 L. S. Efremova, “On some skew products on simplest multidimensional manifolds” (*online*)

### Coffee break

- 17:35–17:55 N. Nguyen, “Structural stability and limit shadowing for flows” (*online*)
- 18:05–18:25 V. K. Shukla, “Finite-time generalized synchronization between chaotic systems” (*online*)

## Auditorium 528, 5<sup>th</sup> Floor

- 15:10–15:55 A. E. Shishkov, “Large and very singular solutions to semilinear elliptic equations”
- 16:05–16:35 A. A. Kon'kov, “On blow-up conditions for solutions of inequalities with the  $\infty$ -Laplacian”
- 16:45–17:15 O. V. Solonukha, “On solvability of parabolic differential-difference equations”

### Coffee break

- 17:35–17:55 A. Hammami, A. Daouas, K. Saoudi, “Existence and multiplicity of solutions for a nonlocal problem with critical Sobolev–Hardy nonlinearities” (*online*)



## Auditorium 629, 6<sup>th</sup> Floor

- 15:10–15:55 A. A. Amosov, “On the solvability of radiative-conductive heat transfer problems in systems of opaque and semitransparent for radiation bodies”
- 16:05–16:35 G. A. Chechkin, “On Meyers estimates for Zaremba problem”
- 16:45–17:15 A. V. Nesterov, A. V. Zaborskii, “Asymptotics of the solution to the Cauchy problem for a singularly perturbed differential operator transport equation with small diffusion”

### Coffee break

- 17:35–17:55 V. A. Lukyanenko, “Analysis of structures of functional-differential equations of nonlinear optics”

## Auditorium 630, 6<sup>th</sup> Floor

- 15:10–15:55 K. Lee, “Gromov–Hausdorff stability of global attractors and inertial manifolds” (*online*)
- 16:05–16:35 Ya. Dymarskii, “Korteweg–de Vries equation on the Uhlenbeck manifold”
- 16:45–17:05 L. G. Shagalova, “Generalized solution of the Hamilton–Jacobi equation with a three-component hamiltonian exponentially dependent on the momentum”

### Coffee break

- 17:35–17:55 O. A. Sultanov, “Bifurcations in near-Hamiltonian systems with damped oscillatory perturbations”

# Monday, July 4

## Conference Hall, 2<sup>nd</sup> Floor

- 10:00–10:45 P. I. Plotnikov, “Geometric flows and shape optimization”  
10:55–11:40 A. I. Shafarevich, “Short-wave asymptotics for evolutionary equations with abruptly varying coefficients”

### Coffee break

- 12:00–12:45 A. V. Mikhailov, “Quantisation of free associative dynamical systems” (*online*)  
12:55–13:40 V. M. Buchstaber, “Integrable polynomial Hamiltonian KdV–Novikov hierarchies and their quantization”

### Lunch

- 15:10–15:40 V. N. Denisov, “On the stabilization rate of the solution to the Cauchy problem for a second-order parabolic equation with growing leading coefficients”  
15:50–16:20 B. D. Koshanov, A. P. Soldatov, “On the solvability of the generalized Neumann problem for a high-order elliptic equation in an infinite domain” (*online*)  
16:30–16:50 K. A. Kalieva, B. B. Bazarbay, Zh. Dong, “On some important problems in the theory of parabolic equations” (*online*)  
17:10–17:30 A. A. Alikhanov, “Nonlocal Steklov boundary-value problem of the first class for the heat equation”

- 18:30–19:00 **Closing Ceremony**

## Auditorium 527, 5<sup>th</sup> Floor

- 15:10–15:40 B. E. Kanguzhin, “Boundary inverse problems for singular perturbations of the Laplace operator”
- 15:50–16:20 V. B. Vasilyev, “On some questions in the theory of elliptic boundary-value problems”
- 16:30–16:50 M. Zefzouf, M. Fabien, “A new symmetric interior penalty discontinuous Galerkin formulation for the Serre–Green–Naghdi equations” (*online*)
- 17:10–17:30 V. F. Vildanova, “Entropy solution for an equation with singular potential in hyperbolic space”
- 17:40–18:00 E. I. Mahmoud, “Analytical solution for fractional advection diffusion equation with variable coefficients and source term”
- 18:30–19:00 **Closing Ceremony**

## Auditorium 528, 5<sup>th</sup> Floor

- 15:10–15:40 V. A. Stukopin, “Asymptotics of eigenvalues of large Toeplitz matrices”
- 15:50–16:20 D. Seba, “On the nonlocal integral boundary value problem for fractional differential equations” (*online*)
- 16:30–16:50 Sh. Jabeen, M. Younis, “Fixed point results of Reich contraction in fuzzy metric spaces endowed with graph” (*online*)
- 17:10–17:30 A. V. Pavlov, “Reflection of functions, geometry in space and regularity of the transform of Laplace”
- 18:30–19:00 **Closing Ceremony**

## Auditorium 629, 6<sup>th</sup> Floor

- 15:10–15:40 E. V. Radkevich, O. A. Vasil'eva, P. Zakharchenko, “On unstable equilibrium states of the two-dimensional Broadwell system”
- 15:50–16:20 D. A. Zakora, “On the problem of normal oscillations of a mixture of two liquids” (*online*)
- 16:30–17:00 M. V. Demina, “The Darboux theory of integrability for polynomial Lienard differential systems”
- 18:30–19:00 **Closing Ceremony**

## Auditorium 630, 6<sup>th</sup> Floor

- 15:10–15:40 V. G. Zadorozhniy, “Stochastic model of combat operations”
- 15:50–16:20 S. M. Sitnik, A. A. Arian, M. K. Kudoski, A.-K. Khaikham, “Transmutation operators: some modern results”
- 16:30–17:00 E. V. Chistyakova, V. F. Chistyakov, “On solvability of higher order differential algebraic equations with singular points” (*online*)
- 17:10–17:30 T. Lomonosov, “On algebraic approach in finding particular solutions of certain nonhomogeneous ODEs”
- 18:30–19:00 **Closing Ceremony**

## List of Participants

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