Online Workshop on Fractional Calculus & Applied Analysis
5-7 NOVEMBER 2026

SCIENTIFIC PROGRAMME & SCHEDULE OF EVENTS

Note: all times are in Central European Time (Paris/Berlin/Rome time zone)

THURSDAY 5 NOVEMBER 2026			
8:30 - 9:00	**Opening Ceremony**		
9:00 - 9:45	**Plenary session: Yuri Luchko**	**Evolution equations with general fractional derivatives as models of anomalous diffusion**	Chair – Arran Fernandez
9:45 – 10:00	Coffee break		
10:00 – 13:30	**Special session: "Special Functions and Fractional Calculus" – in memory of Jordanka Paneva-Konovska**		
10:00 - 10:30	Virginia Kiryakova	From the Le Roy function to the I-function, and related Generalized Fractional Calculus	Chair – Arran Fernandez
10:30 – 11:00	Dmitrii Karp	Asymptotics of inverse Mellin transform with application to I function	Chair – Virginia Kiryakova
11:00 – 11:30	Tibor Pogany	Multi-index Whittaker and Mittag-Leffler functions, related bounding inequalities	
11:30 - 12:00	Coffee break		
12:00 - 12:30	Emilia Bazhlekova	Fractional calculus operators with multinomial Prabhakar kernels	Chair – Virginia Kiryakova
12:30 - 13:00	Elina Shishkina	Generalized Potentials: Theory, Methodologies, and Applications	
13:00 - 13:30	Sergei Rogosin	Asymptotics of the derivatives of special functions with respect to parameters	
13:30 - 14:00	Lunch		
14:00 – 14:30	Lunch		
14:30 – 18:00	**Special session: "Fractional Differential Equations" – in memory of Ravi P. Agarwal**		
14:30 - 15:00	Snezhana Hristova	Switched fractional differential models - the statement, a brief overview and some prospective	Chair – Donal O'Regan

15:00 - 15:30	Adrian Petrusel	On some fixed point theorems for nonself type operators	
15:30 – 16:00	Mokhtar Kirane	Well-posedness and local uniqueness for a fractional evolution problem with a nonlocal and nonlinear initial condition	
16:00 - 16:30	Coffee break		
16:30 - 17:00	Jeffrey Webb	Principal eigenvalues of fractional integral operators	Chair – Snezhana Hristova
17:00 - 17:30	Kunquan Lan	Are the nonlinear first order Caputo fractional differential equations solvable?	
17:30 - 18:00	Elena Braverman	On delay differential equations and systems with a non-delay or weakly delayed term	

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FRIDAY 6 NOVEMBER 2026			
9:00 - 9:45	**Plenary session: Rico Zacher**	**Time-fractional diffusion: The role of dimension in decay and Harnack estimates**	Chair – Joel E. Restrepo
9:45 – 10:00	Coffee break		
10:00 – 15:00	**Special session: "Numerical Analysis in Fractional Calculus"**		
10:00 - 10:30	Hui Liang	A general collocation analysis for weakly singular Volterra integral and integro-differential equations with variable exponent	Chair – Kai Diethelm
10:30 – 11:00	Maria G. Russo	Polynomial approximation methods in solving fractional nonlinear terminal value problems	
11:00 – 11:30	Luisa Morgado	Collocation methods in nonpolynomial spaces for fractional differential equations	
11:30 - 12:00	Coffee break		
12:00 - 12:30	Marvin Fritz	Space–Time Coercivity and Fast Solvers for Fractional Diffusion	Chair – Kai Diethelm
12:30 - 13:00	Jens M. Melenk	hp-FEM for Spectral Fractional Diffusion Based on Best Rational Approximation	
13:00 - 13:30	Afshin Farhadi	Efficient Numerical Computation of Fractional Integrals: Sum-of-Exponentials and Diffusive Representation Approaches	
13:30 – 14:00	Lunch		
14:00 – 14:30	Lunch		
14:30 - 15:00	Mikk Vikerpuur	Extension of the FHBVM approach for solving systems of multi-order fractional differential equations	Chair – Kai Diethelm
15:00 – 15:30	**Special session: "Fractional Calculus in Abstract Spaces" (continued on Saturday)**		

15:00 – 15:30	Marcus Waurick	Homogenisation for nonlocal operators characterised by local topologies	Chair – Paulo Carvalho Neto
15:30 – 18:30	**Special session: “Fractional Calculus and Stochastics”**		
15:30 – 16:00	Vanja Wagner	Nonhomogeneous boundary conditions for spectral non-local operators	Chair – Luisa Beghin
16:00 - 16:30	Coffee break		
16:30 - 17:00	Lorenzo Cristofaro	Gamma-Grey Process and Incomplete Gamma non-local operators	Chair – Luisa Beghin
17:00 - 17:30	Enrico Scalas	A restless time-fractional multiclass queue	
17:30 - 18:00	Nikolai Leonenko	Stretched non-local Pearson diffusions	
18:00 - 18:30	Giacomo Ascione	Asymptotics of densities of subordinators and their inverses	

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SATURDAY 7 NOVEMBER 2026			
9:45 – 10:00	Coffee break		
10:00 – 13:30	**Special session: "Complex Analysis and Fractional Calculus"**		
10:00 - 10:30	Alexey Karapetyants	Fractional Toeplitz operators, Hadamard-Bergman operators and Holder spaces	Chair – Alexey Karapetyants
10:30 – 11:00	Evelyn Morales	Boundedness of Fractional Toeplitz type operators in certain holomorphic spaces	
11:00 – 11:30	Armen Jerbashian	Isometry Theorems for Omega-Weighted Hardy Type Spaces	
11:30 - 12:00	Coffee break		
12:00 - 12:30	Arran Fernandez	The fractional residue theorem	Chair – Alexey Karapetyants
12:30 - 13:00	Walaa Yasin	Fractional polyanalyticity	
13:00 - 13:30	Rod Halburd	Value distribution of meromorphic functions and infinite-order differential operators	
13:30 - 14:00	Lunch		
14:00 – 14:30	Lunch		
14:30 – 16:00	**Special session: "Fractional Calculus in Abstract Spaces" (continued from Friday)**		
14:30 - 15:00	Juan Carlos Pozo	Speed of Invasion in Space-Time Fractional Reaction-Diffusion Equations	Chair – Paulo Carvalho Neto
15:00 - 15:30	PM Carvalho Neto	A General Version of Carathéodory's Theorem for Fractional Differential Systems	
15:30 – 16:00	Katarzyna Ryszewska	Strong Harnack estimates for weak solutions to time-fractional diffusion	

16:00 - 16:30	Coffee break		
16:30 – 17:15	**Plenary session: Pablo Raúl Stinga**	**Fractional Monge-Ampère equations**	Chair – Arran Fernandez
17:15 - 17:30	**Closing Ceremony**		