

Thursday, 20th

09:00-09:35	Abner J. Salgado (Knoxville) <i>Asymptotic compatibility of parametrized optimal design problems</i>	Chair: Wu
09:40-10:15	Markus Melenk (Wien) <i>hp-FEM for the integral fractional Laplacian: quadrature</i>	
10:20-11:00	Coffee break	
11:00-11:35	Sun-Sig Byun (Seoul) <i>Calderon-Zygmund type estimates for local and nonlocal problems</i>	Chair: Diening
11:40-12:15	Verena Bögelein (Salzburg) <i>Regularity for (s,p)-harmonic functions</i>	
12:20-14:00	Lunch	
14:00-14:35	Florian Grube (Bielefeld) <i>Exterior value problems for integro-differential operators</i>	Chair: Weidner
14:40-15:15	Linus Behn (Bielefeld) <i>De Giorgi's method for systems</i>	
15:20-16:00	Coffee break	
16:00-16:35	Amiran Gogatishvili (Prague) <i>Nonlinear interpolation of α-Hölderian mappings with applications to quasilinear PDEs</i>	Chair: Pick

Friday, 21st

09:00-09:35	Xiaochuan Tian (San Diego) <i>Variational analysis of a Dirichlet energy of half-space nonlocal gradient</i>	Chair: Mengesha
09:40-10:15	Lenka Slavíková (Prague) <i>Classical multiplier theorems and their sharp variants</i>	
10:20-11:00	Coffee break	
11:00-11:35	Luboš Pick (Prague) <i>Continuous and compact fractional Orlicz-Sobolev embeddings on domains</i>	Chair: Balci
11:40	Closing	
12:20-14:00	Lunch	

Nonlocal Equations

Analysis and Numerics

March 17–21, 2025

Bielefeld University

V2-205 (talks)

V2-210/216 (coffee breaks)

Website: www.bi-nonlocal.de

Program: program.bi-nonlocal.de

Supported by



Monday, 17th

10:00-10:50	Registration & Coffee	
10:50	Opening	
11:00-11:35	Tadele Mengesha (Knoxville)	Chair: Kassmann
	<i>Variational Analysis of a Parametrized Family of Transmission Problems Coupling Nonlocal and Fractional Models</i>	
11:40-12:15	Minhyun Kim (Seoul)	
	<i>Removable singularities for nonlocal equations and nonlocal minimal graphs</i>	
12:20-14:00	Lunch	
14:00-14:35	Tobias Weth (Frankfurt am Main)	Chair: Cianchi
	<i>Second radial eigenfunctions to a fractional Dirichlet problem and uniqueness for a semilinear equation</i>	
14:40-15:15	Rico Zacher (Ulm)	
	<i>Differential Harnack inequalities for nonlocal diffusion problems</i>	
15:20-16:00	Coffee break	
16:00-16:35	Kyeongbae Kim (Seoul)	Chair: Weth
	<i>Pointwise gradient estimates for nonlocal equations</i>	

Public transport
Tickets/Info in App mobil



Use Tram 4
 between Bielefeld Hbf (main station)
 and Universität Bielefeld

To university in direction
Bi-Großdornberg, Lohmannshof
 To hotel in direction
Rathaus – Stieghorst

Tuesday, 18th

09:00-09:35	Shuonan Wu (Beijing)	Chair: Salgado
	<i>A monotone discretization for integral fractional Laplacian on bounded Lipschitz domains</i>	
09:40-10:15	Rubing Han (Beijing)	
	<i>Local discontinuous Galerkin methods for the integral fractional Laplacian</i>	
10:20-11:00	Coffee break	
11:00-11:35	Matteo Bonforte (Madrid)	Chair: Zacher
	<i>Sharp regularity estimates for nonlocal 0-order p-Laplacian evolution problems</i>	
11:40-12:15	Jihoon Ok (Seoul)	
	<i>Nonlocal equations with various kernels</i>	
12:20-14:00	Lunch	
14:00-14:35	Naian Liao (Salzburg)	Chair: Ros-Oton
	<i>Harnack estimates for nonlocal diffusions</i>	
14:40-15:15	Mirco Piccinini (Pisa)	
	<i>Nonlocal theory for fractional kinetic equations</i>	
15:20-16:00	Coffee break	
16:00-16:40	Lightning session	
16:40-19:00	Poster/Welcome reception	

Wednesday, 19th

09:00-09:35	Xavier Ros-Oton (Barcelona)	Chair: Bögelein
	<i>Regularity for the Boltzmann equation via nonlocal operators</i>	
09:40-10:15	Giuseppe Mingione (Parma)	
	<i>Partial regularity in nonlocal problems</i>	
10:20-11:00	Coffee break	
11:00-11:35	Andrea Cianchi (Florence)	Chair: Mingione
	<i>Constrained differential operators, fractional integrals, and Sobolev inequalities</i>	
11:40-12:15	James Scott (New York)	
	<i>Nonlocal Boundary Value Problems with Local Boundary Conditions</i>	
12:20-14:00	Picture / Lunch	
14:00-14:35	Marvin Weidner (Barcelona)	Chair: Byun
	<i>Regularity for the nonlocal Neumann problem</i>	
14:40-15:15	Tomasz Klimsiak (Toruń)	
	<i>Isolated singularities: Bôcher type theorem for elliptic equations with drift perturbed Lévy operator</i>	
15:20-16:00	Coffee break	
19:00	Dinner: Brauhaus Joh. Albrecht Hagenbruchstraße 8, Bielefeld	