

PROGRAM OF THE SUMMER SCHOOL
“Singularities in Science and Engineering”
22-31 August 2022
Ghent Analysis & PDE Center
Ghent University



Monday 22 August	Auditorium Leslokaal 3.1 Krijgslaan 281, Building S8, Ghent University
9:30 – 10:00	Registration/ Opening
10:00 – 11:00	Virginia Kiryakova: <i>The game of fractional calculus with special functions</i>
11:15 – 12:15	Yuri Luchko: <i>Fractional calculus operators with singular kernels</i>
12:15 – 14:00	Lunch Break
14:00 – 15:00	Maria Alessandra Ragusa: <i>Roles and research trends of some spaces of functions related to solutions of PDEs</i>
15:15 – 16:15	Maria Alessandra Ragusa: <i>Roles and research trends of some spaces of functions related to solutions of PDEs</i>
16:15 – 17:00	Cake Break
17:00 – 18:00	Discussions

Tuesday 23 August	Auditorium Leslokaal 3.1 Krijgslaan 281, Building S8, Ghent University
9:30 – 10:00	Registration
10:00 – 11:00	Yuri Luchko: <i>Fractional calculus operators with singular kernels</i>
11:15 – 12:15	Yuri Luchko: <i>Fractional calculus operators with singular kernels</i>
12:15 – 14:00	Lunch Break
14:00 – 15:00	Bojan Prangoski: <i>A brief introduction to the Weyl-Hörmander calculus</i>
15:15 – 16:15	Bojan Prangoski: <i>A brief introduction to the Weyl-Hörmander calculus</i>
16:15 – 17:00	Cake Break
17:00 – 18:00	Discussions

Wednesday 24 August	Auditorium Leslokaal 3.1 Krijgslaan 281, Building S8, Ghent University
9:30 – 10:00	Registration
10:00 – 11:00	Stevan Pilipović: <i>Time-frequency representations of matrix-type operators and ψ-DOs for function spaces</i>

11:15 – 12:15	Stevan Pilipović: <i>Time-frequency representations of matrix-type operators and ψ-DOs for function spaces</i>
12:15 – 14:00	Lunch Break
14:00 – 14:45	Bojan Prangoski: <i>A brief introduction to the Weyl-Hörmander calculus</i>
15:00 – 15:30	Bojan Prangoski: <i>A brief introduction to the Weyl-Hörmander calculus</i>
15:30 – 16:00	Coffee Break
16:00 – 17:00	Public Lecture Virginia Kiryakova <i>“Fractional derivatives in Science and Engineering” Chronicles and perspectives of FC – In memory of JAT Machado</i>
17:30 – 19:00	Reception (Banquet)

Thursday 25 August	Auditorium Leslokaal 3.1 Krijgslaan 281, Building S8, Ghent University
9:30 – 10:00	Registration
10:00 – 11:00	Stevan Pilipović: <i>Time-frequency representations of matrix-type operators and ψ-DOs for function spaces</i>
11:15 – 12:15	Maria Alessandra Ragusa: <i>Roles and research trends of some spaces of functions related to solutions of PDEs</i>
12:15 – 14:00	Lunch Break
14:00 – 15:00	Maria Alessandra Ragusa: <i>Roles and research trends of some spaces of functions related to solutions of PDEs</i>
15:15 – 16:15	Discussions
16:15 – 17:00	Cake Break
17:00 – 18:00	Discussions

Friday 26 August	Auditorium Leslokaal 3.1 Krijgslaan 281, Building S8, Ghent University
9:30 – 10:00	Registration
10:00 – 11:00	Virginia Kiryakova: <i>A guide to special functions of fractional calculus</i>
11:15 – 12:15	Virginia Kiryakova: <i>Images of special functions under FC operators: well predictable results</i>
12:15 – 14:00	Lunch Break
14:00 – 15:00	Mihalis Kolountzakis: <i>Orthogonal Fourier Analysis on domains and problems of tiling</i>
15:15 – 16:15	Mihalis Kolountzakis: <i>Orthogonal Fourier Analysis on domains and problems of tiling</i>
16:15 – 17:00	Cake Break
17:00 – 18:00	Discussions

Saturday 27 August	Auditorium Leslokaal 3.1 Krijgslaan 281, Building S8, Ghent University
9:30 – 10:00	Registration
10:00 – 11:00	Sanja Konjik: <i>Fractional modelling of various problems in mechanics</i>
11:15 – 12:15	Sanja Konjik: <i>Fractional modelling of various problems in mechanics</i>
12:15 – 14:00	Lunch-cake Break
14:00 – 18:00	Boat trip around the city

Sunday 28 August	FREE DAY
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Monday 29 August	Auditorium Leslokaal 3.1 Krijgslaan 281, Building S8, Ghent University
9:30 – 10:00	Registration
10:00 – 11:00	Mihalis Kolountzakis: <i>Orthogonal Fourier Analysis on domains and problems of tiling</i>
11:15 – 12:15	Sanja Konjik: <i>Fractional modelling of various problems in mechanics</i>
12:15 – 14:00	Lunch Break
14:00 – 14:30	Arran Fernandez: <i>Classifying semigroup properties for integral operators with general Fox-Wright kernels</i>
14:45 – 15:15	Narciso Gomes: <i>Compressed sensing in Clifford Analysis: bicomplex and quaternionic signals</i>
15:30 – 16:15	Discussions
16:15 – 17:00	Cake Break
17:00 – 18:00	Discussions

Tuesday 30 August	Auditorium Leslokaal 3.1 Krijgslaan 281, Building S8, Ghent University
10:00 – 11:00	Mihalis Kolountzakis: <i>Orthogonal Fourier Analysis on domains and problems of tiling</i>
11:15 – 12:15	Ingo Witt: <i>Elliptic boundary problems for edge-degenerate operators</i>
12:15 – 14:00	Lunch Break
14:00 – 15:00	Ingo Witt: <i>Elliptic boundary problems for edge-degenerate operators</i>
15:15 – 15:45	Prasun Roychowdhury: <i>Criticality theory and Hardy inequality</i>
16:00 – 16:30	Abimbola Abolarinwa: <i>Nonlinear anisotropic Picone type identities for general vector fields and some applications</i>
16:30 – 17:00	Cake Break
17:00 – 18:00	Discussions

Wednesday 31 August	Auditorium Leslokaal 3.1 Krijgslaan 281, Building S8, Ghent University
10:00 – 11:00	Ingo Witt: <i>Elliptic boundary problems for edge-degenerate operators</i>
11:15 – 12:15	Ingo Witt: <i>Elliptic boundary problems for edge-degenerate operators</i>
12:15 – 14:00	Lunch Break
14:00 – 15:00	Discussions
15:15 – 16:15	Discussions
16:15 – 17:00	Cake Break
17:00 – 18:00	Closing