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Harnack's inequality for nonlocal parabolic equations

Harnack's inequality asserts that the ratio of two values of positive harmonic functions over a compact set is bounded. A Harnack-type inequality for positive solutions to the heat equation was independently formulated by Hadamard and Pini in 1954. A crucial character is the so-called waiting-time phenomenon. A decade later Moser showed a deep result that the Harnack inequality continued to hold for solutions to parabolic equations with bounded and measurable coefficients. I will introduce recent advances on Harnack's inequality for nonlocal parabolic equations.

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15:30 – 16:30

HS 11, Architekturgebäude,
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