

Lecture Series XVII — May 20, 2021 (20:00-22:00 Beijing time or 15:00-17:00 St Petersburg time).

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Lecture 1—Fractional Calculus for m-accretive Operators

Speaker: Dr. Maxim Kukushkin, Moscow State University for Civil Engineering; Institute for Applied Mathematics and Automatization

Time: 20:00-21:00 Beijing time (15:00-16:00 St Petersburg time)

Abstract: In this report we aim to construct an abstract model of a differential operator with a fractional integro-differential operator composition in final terms, where modeling is understood as an interpretation of concrete differential operators in terms of the infinitesimal generator of a corresponding semigroup. We study such operators as a Kipriyanov operator, Riesz potential, difference operator. Along with this, we consider transforms of m-accretive operators as a generalization, introduce a special operator class and provide a description of its spectral properties.

Bio: Maksim Kukushkin is a specialist in boundary problems, fractional derivatives and operator theory being author of a wide range of publications in all these areas. He has got his PhD degree in 2016 and, after the worked at Moscow State University of Civil Engineering, Kabardino-Balkarian Scientific Center and Saint Petersburg State Transport University.

Lecture 2 — Cohn-Vossen inequality on certain noncompact Kahler manifolds

Speaker: Prof. Gang Liu, HuaDong Normal University

Time: 21:00-22:00 Beijing time (16:00-17:00 St Petersburg time)

Abstract: We generalize the Cohn-Vossen inequality to certain noncompact Kahler manifolds. This is related to a conjecture of Yau.

Bio: Gang Liu graduated from the University of Minnesota. He was a postdoctoral fellow at the University of California, Berkeley, and an assistant professor at Northwestern University. Now he is a professor at the East China Normal University.