## Bahçeşehir University, Istanbul, Türkiye
## Analysis & PDE Center, Ghent University, Ghent, Belgium
## Institute Mathematics & Math. Modeling, Almaty, Kazakhstan

# "Analysis and Applied Mathematics"
## Weekly Online Seminar

Seminar leaders:
Prof. Allaberen Ashyralyev (BAU, Istanbul),
Prof. Michael Ruzhansky (UGent, Ghent),
Prof. Makhmud Sadybekov (IMMM, Almaty)

Date: **Tuesday, April 16, 2024**
Time: 14.00-15.00 (Istanbul) = 13.00-14.00 (Ghent) = 16.00-17.00 (Almaty)

Zoom link: https://us02web.zoom.us/j/6678270445?pwd=SFNmQUIvT0tRaH-lDaVYrN3l5bzJVQT09, **Conference ID:** 667 827 0445, **Access code:** 1

Speaker:
# Prof. Dr. Vsevolod Zh. Sakbaev
*Keldyah Institute of Applied Mathematics, Moscow, Russia*

Title: **Random Processes Describing Solutions of Initial Value Problems for Difference-Differential Equations of Retarded Type**

Abstract: We will consider the procedure for constructing Feynman measures on the space of trajectories representing semigroups of operators in Hilbert space specified by a linear differential equations, and a linear functional differential equation with delay. From the space of measures on the space of trajectories, a set of measures representing semigroups is determined.

Biography:
**Vsevolod Zh. Sakbaev** received his PhD degree from Moscow Institute of Physics and Technology (MIPT) in 1994. In 2010, he obtained the degree of Doctor of Sciences in Mathematics from the RUDN (Moscow, Russia). He held the position of Full Professor in MIPT from 2016. Since 2021, he is a Leading Researcher of the Department of Kinetic Equation in Keldysh Institute of Applied Mathematics of Russian Academy of Science (Moscow, Russia). Prof. Dr. V. Zh. Sakbaev has research interests in the following areas: degenerated partial differential equations and its regularization, quantum systems with degenerated Hamiltonian, parabolic and hyperbolic functional differential equations, semigroups of linear operators and its approximations, random semigroups, random operator valued processes, Feynman-Kac formulas, invariant measures of infinite dimensional Hamiltonian flows.