

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, February 20, 2024**

Time: 14.00-15.00 (Istanbul) = 12.00-13.00 (Ghent) = 17.00-18.00 (Almaty)

Zoom link: <https://us02web.zoom.us/j/6678270445?pwd=SFNmQUlVTD0tRaH-IDaVYrN3I5bzJVQT09>, **Conference ID:** 667 827 0445, **Access code:** 1

Speaker:

Prof. Dr. Assia Guezane-Lakoud

Badji Mokhtar-Annaba University, Algeria

Title: **Solving a class of delay fractional differential equations**

Abstract: In this presentation, we use fixed point theorems to establish the existence, uniqueness and Ulam-Hyers stability of solutions for a specific class of delay fractional differential equations with initial conditions. Furthermore, we employ the Adomian decomposition method to conduct a numerical analysis on some examples.

Biography:

Assia Guezane-Lakoud is a Professor at Badji Mokhtar Annaba University (BMA), Algeria. She obtained a PhD degree in Mathematics from BMA University in 2001. Her topics of research deal mostly with partial differential equations, ordinary and fractional differential equations, and integral inequalities.