

Bahçeşehir University, Istanbul, Turkey
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 26, 2022**

Time: 14.00-15.00 (Istanbul) = 13.00-14.00 (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:

Assoc. Prof. Dr. Turgay Bayraktar
Sabancı University, Istanbul, Turkey

Title: **Universality principles for random polynomials**

Abstract: In this talk, I will present several universality principles concerned with zero distribution of random polynomials. In one direction, universality phenomenon indicates that under natural assumptions, asymptotic distribution of (appropriately normalized) zeros of random polynomials is independent of the choice of probability law defined on random polynomials. Another form of universality is asymptotic normality of smooth linear statistics of zeros.

Biography:

Turgay Bayraktar received his BSc and MSc degrees from Mathematics Department of Middle East Technical University and his PhD from Indiana University. He continued his postdoctoral research at Johns Hopkins, Indiana and Syracuse Universities before he joined Sabancı University (SU) as a faculty member at the Faculty of Engineering and Natural Sciences in 2017. His research focuses on the fields of complex analysis, geometry and dynamical systems. He has received various national and international awards and grants including Science Academy, Turkey BAGEP prize, Turkish Academy of Sciences GEBIP and Mathematics Foundation of Turkey Gündüz İkedâ research awards. Dr. Bayraktar is serving as Tosun Terzioğlu Chair of Mathematics at SU as of March 2022.