



Analysis Seminar

Grothendieck's approach to the approximation problem

By

Alexander Goncharov
(Bilkent)

Abstract: The essential part of the famous Grothendieck's thesis was devoted to the approximation property (AP) of locally convex spaces. His ideas had a profound influence on future research on this problem. One of Grothendieck's characterizations of AP was later used by Enflo in the first construction of a separable Banach space without basis. After this, substantial simplifications were suggested by Pelczynski, Figiel, Kwapien, Szankowski and others. We review some of these results.

Date: Monday, March 24, 2025

Time: 15:30-16:30

Place: Mathematics Seminar Room, SA – 141