

# Seminar Information

## Generalized Limits and Ideal Convergence

to be given by

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**Date:** March 30, 2026 (Monday)

**Time:** 12:15

### Abstract

Let  $\mathcal{I}$  be an ideal on  $\mathbb{N}$ , the set of positive integers. Consider the Banach space  $m$  of all real bounded sequences  $x$  with  $\|x\| = \sup_k |x_k|$ . A positive linear functional  $L$  on  $m$  is called an  $S_{\mathcal{I}}$ -limit if  $L(\chi_K) = 0$  for every characteristic sequence  $\chi_K$  of sets  $K \subseteq \mathbb{N}$  for which  $\mathcal{I}\text{-lim } \chi_K = 0$ .

In this talk, we study regular sublinear functionals that both generate and dominate  $S_{\mathcal{I}}$ -limits.

The talk is based on a part of a joint work with Cihan Orhan. The related paper is available at:

<https://doiserbia.nb.rs/ft.aspx?id=0354-518024322590>