

# HARMONIC AND SPECTRAL ANALYSIS

International Zoom Conference

October 4–6, 2023

---

## Topologically transitive operators on the space of Radon measures

STEFAN IVKOVIĆ

Mathematical Institute of the Serbian Academy of Sciences and Arts,  
Belgrade, Serbia

In this talk, we characterize hypercyclic weighted composition operators acting on the  $C^*$ -algebra of all continuous complex valued functions on a locally compact, non-compact Hausdorff space. Moreover, we consider the dynamics of the adjoint of a weighted composition operator and we give necessary and sufficient conditions for this adjoint operator to be topologically transitive on the space of Radon measures on a locally compact, non-compact Hausdorff space. Finally, we provide sufficient conditions for this adjoint operator to be chaotic and we give concrete examples.