

Speaker:
Moritz Gerlach (Universität Potsdam)

Date:
Monday, 5 July 2021, at 2:00 pm

Title:
Regularization properties of kernel operators

Abstract:

The talk gives an overview of (well-)known and more recent results in the theory of kernel operators. A particular focus is on sufficient conditions for a linear operator to be given by an integral kernel. As a new result we will see that positive kernel operators have a common regularization property that characterizes them within all positive operators. Moreover, the talk gives a brief insight into the special role of kernel operators in the analysis of the long-term behavior of positive semigroups.