International scientific online seminar on
Analysis, Differential Equations and Mathematical Physics

Coordinators: Prof. Alexey Karapetyants, Prof. Vladislav Kravchenko

JOIN THE SEMINAR

10 June 2021, 6 pm (GMT+3)

On the regularity of characteristic functions

Winfried Sickel, Institute of Mathematics, Friedrich-Schiller-University Jena, Germany, winfried.sickel@uni-jena.de

In my talk I will give a survey on the smoothness of characteristic functions $\mathcal{X}_E$ of bounded open sets $E \subset \mathbb{R}^d$. I plan to discuss various sufficient and necessary conditions for such a function $\mathcal{X}_E$ to belong to a Besov space $B_{p,q}^s(\mathbb{R}^d)$.
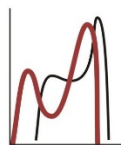
*Seminar website: https://rmc.sfedu.ru/seminar. The seminar uses Microsoft Teams online platform.
Please send questions to pichugina@sfedu.ru (Olga Pichugina, scientific secretary).

The seminar is organized by the Regional Mathematical Center of the Southern Federal University in collaboration with Institute of Mathematics, Mechanics and Computer Sciences of the Southern Federal University and the special Interest ISAAC-OTHA group in Operator Theory and Harmonic Analysis.

Региональный научно - образовательный математический центр
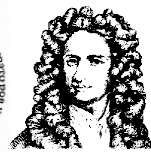Южный Федеральный Университет
Ростов-на-Дону
Regional Mathematical Center
https://rmc.sfedu.ru/

ИНСТИТУТ МАТЕМАТИКИ МЕХАНИКИ КОМПЬЮТЕРНЫХ НАУК
— имени И.И. Воровича —
Institute of Mathematics, Mechanics and Computer Sciences
http://www.mmcs.sfedu.ru/

ISAAC
Special Interest ISAAC-OTHA group in Operator Theory and Harmonic Analysis
http://otha.sfedu.ru/isaac/