



ЮЖНЫЙ ФЕДЕРАЛЬНЫЙ УНИВЕРСИТЕТ  
Региональный математический центр  
SOUTHERN FEDERAL UNIVERSITY  
Regional Mathematical Center  
<https://rmc.sfedu.ru/>, Rostov-on-Don, Russia

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

Coordinators: Prof. Alexey Karapetyants, Prof. Vladislav Kravchenko

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28 October 2021, 6 pm (GMT+3)

### Riemann-Hilbert problem for a multiply connected domain and its applications to the effective properties of 2D random composites

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In this talk we answer the following question: "Why did James Bond prefer shaken, not stirred martini with ice?" The posed question is resolved by the scalar Riemann-Hilbert problem  $\operatorname{Re}(af) = g$  for a multiply connected domain and its complete solution. Relations to the  $\mathbb{R}$ -linear problem and the effective properties of 2D random composites are discussed.

\*Seminar website: <https://rmc.sfedu.ru/seminar>. The seminar uses Microsoft Teams online platform. Please send questions to [pichugina@sfedu.ru](mailto: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.

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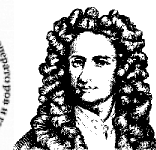
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