NATIONAL RESEARCH UNIVERSITY

Rough differential calculus and weak geometric structures

ISCP

Mini-colloquium

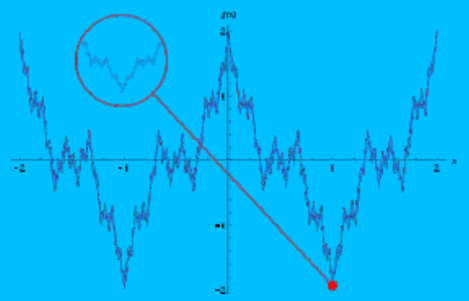
Moscow, Higher School of Economics and Interdisciplinary Scientific Center Poncelet

May 14-18, 2018

A series of lectures will be focused on geometric analysis problems where both the unknowns and the data may have very low regularity, e.g. be just measures or even distributions. This includes rough differential calculus with applications to geometric problems with highly irregular data, its relationships to metric and in particular sub-Riemannian geometry, non smooth exterior differential systems, as well as closely related problems in weak geometric structures, including irregular flows of measures.

Invited lecturers:

Valentino Magnani	**(Università di Pisa)**
Annalisa Massaccesi	**(Università di Verona)**
Stefano Modena	**(Universität Leipzig)**
Dario Trevisan	**(Università di Pisa)**
Khadim War	**(Ruhr-Universität Bochum)**
Roger Züst	**(Universität Bern)**



Organizing committee:

Alexander Kolesnikov	**(Higher School of Economics)**
Sergey Nechaev	**(Interdisciplinary Scientific Center Poncelet)**
Andrei Sobolevski	**(Institute of Information Transmission Problems)**
Eugene Stepanov	**(Steklov Research Institute of Mathematics, St. Petersburg)**