

# Eigenvalues of the fractional Laplace operator in the unit ball; density of smooth functions

20th, March

Abstract: We will discuss explicit formulae for the fractional Laplacian in the unit ball applied to some specific functions and show applications concerning eigenvalues for the Dirichlet problem. We will also mention recent results about density of smooth functions in fractional order Sobolev spaces. The talk will be based on a joint work with Alexey Kuznetsov, Mateusz Kwaśnicki and Michał Kijaczko.