

# The Neumann problem for the fractional Laplacian

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Abstract: We study a Neumann problem for the fractional Laplacian. We start with some basic properties, such as its variational formulation, probabilistic interpretation, existence of solutions, and then turn our attention to their regularity. We will present our main new boundary regularity result, and list some questions that remain open. This is a joint work with A. Audrito and J. C. Felipe-Navarro.