

1011-35-186

Irina Mitrea* (im3p@virginia.edu), University of Virginia, Department of Mathematics, Kerchof Hall, Charlottesville, VA 22904. *On the Dirichlet problem for higher order elliptic operators in two dimensions.* Preliminary report.

We study the Dirichlet problem with L^p data, $1 < p < \infty$, for higher order elliptic operators in smooth domains in two dimensions. Our approach relies on the multiple layer potential method. (Received August 25, 2005)