1037-42-167 Dorina Mitrea* (dorina@math.missouri.edu), Department of Mathematics, University of Missouri, Columbia, MO 65211. On the Regularity of Green potentials for Elliptic Systems.
Let G be the solution operator for the Poisson problem with Dirichlet boundary condition associated to the a second order, constant coefficient, strongly elliptic system in a bounded Lipschitz domain Ω in R³. In this talk, we will discuss the proof of the fact that G maps L¹(Ω) into weak L^{3/2}(Ω). (Received February 01, 2008)