

**SEMILINEAR POISSON PROBLEMS IN
SOBOLEV-BESOV SPACES ON LIPSCHITZ DOMAINS**

MARTIN DINDOŠ* AND MARIUS MITREA†

Abstract

Extending recent work for the linear Poisson problem for the Laplacian in the framework of Sobolev-Besov spaces on Lipschitz domains by Jerison and Kenig [16], Fabes, Mendez and Mitrea [9], and Mitrea and Taylor [30], here we take up the task of developing a similar sharp theory for semilinear problems of the type $\Delta u - N(x, u) = F(x)$, equipped with Dirichlet and Neumann boundary conditions.

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