Extension Operators for Weighted Sobolev Spaces in Lipschitz Domains

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Abstract: Extension operators play a crucial role in the study of partial differential equations. Historically, there are three basic/fundamental operators; namely the extension operators due to A.P. Calderon, E. Stein, and P. Jones. In this talk, we will consider/study these three operators in the setting of weighted Sobolev spaces on Lipschitz domains and compare/contrast their most basic properties (e.g., applications to interpolation, universal vs. semi-universal, etc.).