

# Spectral Properties of Singular Integral Operators in Two Dimensions

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In this talk I will discuss spectral properties of Singular Integral Operators, in bounded smooth domains in arbitrary dimensions and in infinite sectors in two dimensions, on the classical Lebesgue scale of  $p$ -integrable functions, for  $1 < p < \infty$ . Included in this analysis are the model case of the classical harmonic boundary double layer potential and new spectral results for the reflection singular integral operator arising in connection with the study of the radiosity equation.