

Pseudo-analyticity in electrical impedance and optical tomography

Abstract: Pseudo-analytic functions were introduced independently by Bers and Vekua in the early fifties, but their role in elliptic inverse problems became apparent only in the last decade. When pseudo-analyticity is generalized to sequence valued functions, it can be applied to questions in X-ray and Optical tomography. I will present new properties of these functions and stress their application in inverse problems.