

Boundedness in Total Variation regularization

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In this talk, we investigate boundedness and convergence of total variation regularized linear inverse problems. We present a simple proof of boundedness of the minimizer for fixed regularization parameter, and derive the existence of uniform bounds for small enough noise under a source condition and adequate a priori parameter choices. We present a few (counter)examples. This is a joint work with K. Bredies (Graz) and José A. Iglesias (RICAM, Linz).