

# Reconstruction of Taylor data from measurements

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Recently a serious progress has been achieved in reconstructing "simple" (but not necessarily regular!) data from measurements. In particular, the approaches of "Compressive sampling" and "Algebraic sampling" strongly improve reconstruction accuracy in many important situations. We discuss the reconstruction problem for the piecewise-smooth functions, where both the smoothness region's boundaries and the functions inside these regions are discretized via a grid of Taylor polynomials.