

Anisotropic TV flow in 2D case.

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I plan to talk about solvability of solutions to the anisotropic two space dimensional total variation flow. The anisotropy defines minimal sets as squares, the dissipation is just in two main directions x_1 and x_2 . The main language of analysis of this problem is built over determination of evolutions of step type function, more precisely of functions piecewise constant on rectangles (PCR). Since this set is preserved under the considered flow, one can determine completely the evolutions in this class. Particularly, I plan to discuss the case of breaking of facets.

The talk is based on analysis of results of joint paper with Salva Moll (Valencia) and Michał Łasica (Rome).