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On the singular set of BV Minimizers

Convex linear growth functionals are an important class of variational problems which arises e.g. in the study of minimal surfaces. In this talk, we address the regularity properties of minimizers, a theme that has witnessed numerous contributions over the past decades. In particular, such problems require to work with functions of bounded variation, whereby the methods deviate from the usual techniques for functionals of p -growth for $p > 1$. As we will describe in the talk, we hereby obtain Hausdorff dimension bounds on the so-called singular set.

This is joint work with Buddhika Priyasad and Paul Stephan (Konstanz).