THE 5TH SYMPOSIUM ON ANALYSIS & PDEs

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A nonlocal functional from data analysis
Abstract. I will discuss a nonlocal functional relevant to analysis of data sets. Specifically to nonlinear principal component analysis, data parameterization and dimensionality reduction. The basic features of the functional and connections to the average-distance problem introduced by Buttazzo, Oudet and Stepanov will be presented. The (lack of) regularity of minimizers will also be discussed.