1039-28-145   **Raanan Schul***, Mathematics Department, UCLA, Box 951555, Los Angeles, CA 90095-1555.
Bi-Lipschitz decomposition of Lipschitz functions into a metric space.

We will outline the proof of a quantitative version of the following statement. Given a Lipschitz function f from the k-dimensional unit cube into a general metric space, one can decomposed f into a finite number of Bi-Lipschitz functions $f|_{F_i}$ so that the k-Hausdorff content of $f([0,1]^k \setminus \cup F_i)$ is small. The case where the metric space is $\mathbb{R}^d$ is a theorem of P. Jones (1988). (Received March 10, 2008)