

1097-28-463

Stephen David Lewis* (stedalew@uw.edu), University of Washington, Dept of Mathematics,
Box 354350, Seattle, WA 98195. *Local Set Approximation.*

In many areas of geometric measure theory, it is useful to study the interplay between the geometry of a closed set $A \subseteq \mathbb{R}^n$ and the geometry of a collection of closed sets $\mathcal{S} \subset \mathcal{P}(\mathbb{R}^n)$ which approximate A locally uniformly on small scales (in a Hausdorff distance sense). This includes several Plateau problems, harmonic analysis, and regularity of measures. In this talk we introduce a general framework for such studies. Included, we will discuss a result about the connectedness at infinity of the cone of tangent sets.

This is joint work with Matt Badger. (Received January 28, 2014)