

1145-03-2599 **Neil Lutz***, Dept. of Computer and Information Science, University of Pennsylvania, 3330
Walnut Street, Philadelphia, PA 19104. *Algorithmic Dimensions of Projected Points*.

To what extent are fractal dimensions preserved by projection mappings? In this talk, we will consider an effective and pointwise version of this question in the Euclidean plane. I will describe recent progress on this question and show how it has yielded new results about the classical Hausdorff dimension of projected sets, including new extensions to Marstrand's projection theorem. (Received September 25, 2018)