Iowa Colloquium on Information, Complexity, and Logic

October 3rd Meeting

Location: Grinnell College in Noyce 2243

[Map of Grinnell College](#)   [Parking Map](#)

Time: Thursday, October 3rd at 3:30 PM

Speaker: Neil Lutz (Iowa State University)

Title: Algorithmic Dimensions of Projected Points

Abstract: 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.

Parking Information: Parking Lot J is recommended and located just south of 10th Avenue, across from the athletic center. Visitors can also park on the residential streets a block away from campus on Elm Street or 10th Avenue.