## Chris GARTLAND, University of California (San Diego)

## "Nagata Dimension, Hyperbolic Metric Spaces, and Stochastic Embeddings"

This talk is based on ongoing work of the speaker. We will discuss the stochastic embeddability of snowflakes of finite Nagata-dimensional spaces into ultrametric spaces and the induced stochastic embeddings of their hyperbolic fillings into trees. Several results follow as applications : (1) For any uniformly concave gauge  $\omega$ , the Lipschitz free space over  $([0,1]^n, \omega \circ d)$  is isomorphic to  $\ell_1$ , where d is the Euclidean metric on the finite dimensional cube  $[0,1]^n$ . (2) The Lipschitz free space over every finitely generated Gromov hyperbolic group is isomorphic to  $\ell_1$ . (3) The Lipschitz free space over the *n*-dimensional hyperbolic space  $\mathbb{H}^n$  is isomorphic to the Lipschitz free space over  $\mathbb{R}^n$ .