

1106-37-963

Mrinal Kanti Roychowdhury and **Nina Snigireva*** (nina.snigireva@ucd.ie), School of Mathematical Sciences, University College Dublin, Dublin, Ireland. *Asymptotic of the geometric mean error in the quantization of recurrent self-similar measures.*

In this talk we will discuss the quantization dimension $D(\mu)$ of a recurrent self-similar measure μ with respect to the geometric mean error. In particular, we will show that $D(\mu)$ coincides with the Hausdorff dimension $\dim_{\mathbb{H}}^*(\mu)$ of μ . In addition, we will prove that the $D(\mu)$ -dimensional lower and upper quantization coefficients for μ are finite and positive. This is joint work with Mrinal Kanti Roychowdhury. (Received September 09, 2014)