1014-42-438 **Yang Wang*** (`wang@math.gatech.edu`), School of Mathematics, Georgia Tech, Atlanta, GA 30332-0160, and **Long Wang** and **David Jimenez**. *On PCM and Sigma-Delta Quantization Errors.*

In this talk we discuss the errors from the Pulse-Code Modulation (PCM) quantization and the Sigma-Delta quantization in the finite frame setting. We show that as the quantization step becomes small the errors in different channels approach in distribution to white noise for the PCM quantization. We also link the Sigma-Delta quantization errors to the Travelling Salesman Problem. (Received September 27, 2005)