

1108-44-174      **Fatma Terzioglu\*** ([fatma@math.tamu.edu](mailto:fatma@math.tamu.edu)). *An Inversion Formula for the Cone Transform.*

Compton cameras arise in medical imaging, astronomy, and lately in homeland security applications. It naturally leads to a variety of Radon type transforms where integration is done over conical surfaces. In this talk, we present integral relations between cone and Radon transforms in  $\mathbb{R}^n$ , and give filtered back-projection type inversion formulas for the overdetermined cone transform. (Received January 10, 2015)