



2008 - 2009



**MATHEMATICS COLLOQUIUM SERIES
UNIVERSITY OF CENTRAL FLORIDA**

**Dr. Alexander Katsevich
Department of Mathematics
University of Central Florida**

Will speak on

**"Exact and Efficient Image Reconstruction in
Tomography: Mathematical Aspects"**

Abstract:

Computer tomography (CT) is a common medical imaging modality. Most of CT scans today are done in the spiral mode with two-dimensional detector arrays. Image reconstruction from the data provided by such scans is a complicated problem. On one hand, very good image quality is required. On the other hand, the algorithm has to be highly efficient. In this talk we will present a mathematical theory that leads to reconstruction algorithms, which are both accurate and very efficient.

Date: Thursday, April 16, 2009

Time: 11:30 AM

Place: MAP 318

Everyone is cordially requested to attend.