1067-Y5-1829   **John Merkel*** (`jmerkel@oglethorpe.edu`), Oglethorpe University, 4484 Peachtree Road NE, Atlanta, GA 30319, and **Patrick Van Fleet** and **David Ruch**. *Undergraduate Research Projects on Pansharpening.* Preliminary report.

In this talk we present ideas for undergraduate research projects based on pansharpening techniques utilizing discrete wavelets. Pansharpening is the process of merging a high resolution panchromatic (black/white) image with a lower resolution multispectral (color) image to create a high resolution color image. Pansharpening is often applied to satellite images, which typically exist in these high/low resolution pairs. (Received September 21, 2010)

1