

# SPITZER MIPS AND ARCHIVAL SURVEYS OF IR EXCESSES OF WHITE DWARFS

Y.-H. Chu<sup>1</sup>, R.A. Gruendl<sup>1</sup>, K.Y.L. Su<sup>2</sup>, A. Riddle<sup>1</sup>, J. Bilikova<sup>1</sup>, et al.

<sup>1</sup> *University of Illinois*, <sup>2</sup> *University of Arizona*

IR excesses of white dwarfs (WDs) can be indicative of the presence of a low-mass companion, debris disks, or planets. The Spitzer Space Telescope has been used to survey IR excesses of WDs with IRAC (Mullaly et al. 2007) or MIPS (Chu et al. 2010). The MIPS 24  $\mu\text{m}$  survey of 71 hot WDs yields detection for 9 cases. In the Spitzer archive there exist many more serendipitous observations of WDs. We have used these archival observations to search for IR excesses of WDs. In this paper, we report the statistics, SED analysis, and origins of these IR excesses for both the MIPS and archival surveys.