Presentations:

Sfiligoi, Igor, Frank Wirthwein, and Christopher Theissen Wising Condor Glideins for Distributed Testing of Networkacing Service Description Paper presented and 2010 International Workshop on HPC and Grid Application 29 May 2010.

Theissen, Christopher and David TytlerÒPyTracker: Automated Spectroscopic Target Acquisition using CrosSorrelation with Existing Astrometric PositioÓP aper presented at the University of California San Diego Unergraduate Research Conference April 2010.

n the Open Sciencer@." In review.

Quimby, RobertShrinivas KulkarniMansi Kasliwal, AvishayGal-Yam, lair

problem solving techniques, and creating a newfound interest throughout alappications of the material they were learning. By creating an interest in these students, I opened new Circumstellar disks, dust and gas around young stars, are likely precursors to planet formation. To date, minimal data has been analyzed from large populations **odistices** quantify general principles regarding correlations between disk, host star, and their place in the Galaxy. How many stars actually have disks? Are there correlations between disks and stellar properties that can be used to constrain stellar age? To collect data from a large population of M dwarf stars, I will to use a spectroscopic catalog of over 70,000 M dwarfs compiled by West etualing the Sloan Digital Sky Survey (SDSS). This catalog controls coordinates, distances, SDSS and Two MicrorSkyl Survey (2MASS) photometry and specocopic data and spectral types. With this catalog it is possible to acquire photometric data from a large sample of M dwarfs to model and analyze spectral energydistributions (SEDs)Coursework in stellar structure, evolution, and planetary formation will provide insights into modeling SEDs for M dwarf stars and circumstellar.disks

In executing my proposed study, I will first crosseatch the photometricada from WISE, 2MASS, and SDSS o fully characterize the disk population, photometric data must be collected over longer wavelengths toolpe these collect, more diffuse disk states I will supplement the WISE, 2MASS, and SDSS advith photometric measurements loads are wavelengths (40E670 m) from the Herschel Space Observatory and Spitzer. To be server wavelengths will allow the proper odeling of the SED for characterizing coolectisks.

Due to the largescale nature of this project, there will be ample opportunity to involve undergraduate students in data collection, modeling, and an**Algspia**rt of mylong-term outreach efforts would also like to propose time of the Discovery Channel Telescope, which Boston University is assured 15% usate perform spectroscopy candidate M dwarfs that show interesting emission features. Observation is one of the hallmarks of Astronomy outreach, and by involving studets, both at the university and high school level, I hope to introduce young minds tomoreadvancedopics in astronomy and bring a fresser performed to our science. References:

Bochanski, J. J., et al. 2010, AJ, 139, 2679 3. West, A. A., et al. 2006, AJ, 132, 2507
Howard, A. W., et al. 2011, arXiv:1103.25414. West, A. A., et al. 2011, AJ, 141, 97

PTF, whichhave high luminosities, approximately 10 times brighter than typical la supernovaes, and high redshifts (z between 0.15da0.2), whose precesses cannot be explained toppical supernovae models. These events fall within the theoretical range-infspatrility supernovae and thus strengthen our understanding of stellar evolution for massive stars with low metallicity.