

Application for the CARMA Summer School

I'm a graduate students from Peking University and currently working with Dr. Jui-Hui Zhao at CfA in the SAO predoctoral Fellowship Program. Now I am applying for attending the CARMA summer school,

My thesis topic is the observational study on the dynamical processes in high-mass star formation regions. It focuses on infall process, but also includes disk and outflow since these processes are all closely related to the accretion and mass accumulation of high-mass protostars. Considering the large distances of high-mass star formation regions as well as the small scales of infall and circumstellar rotating structures, high spatial resolution of arcsec or better is indispensable for my work. In the millimeter and radio field, only interferometers can meet this requirement.

The CARMA telescope is an ideal instrument for my thesis study for its ability of sub-arcsec imaging and high sensitivity. I have proposed the CARMA to observe high-mass star formation regions in the next observational season. No matter whether I can obtain observing time this time, I plan to continue proposing for it. This summer school provide me a good chance to get access to the CARMA. In this school I can learn how CARMA works and how to use it for observations, as well as the data reduction from the beginning to the end. These experiences and knowledge will be very helpful for me to fulfill my thesis and achieve reliable scientific results.

Besides the topics concerning on the CARMA, I also hope to learn generally theory of the interferometer and the method of data analysis. As a beginner in the field of interferometric radio astronomy, I feel it is a great chance to enhance my understanding on the theory and the real observation.

At last but not least, this summer school provides a good chance for me to communicate with the experts and to learn how to be a good researcher. I've read some materials of the last CARMA summer school, and really like to have myself well trained like the students of last year.

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