SMA observation of star-forming regions

Chunhua Qi

Harvard-Smithsonian Center for Astrophysics (cqi@cfa.harvard.edu)

The Submillimeter Array (SMA), the world's first imaging interferometric telescope at the submillimeter wavelengths, consists of eight 6 meter antennas sited near the summit of Mauna Kea. Each antenna will be equipped with up to eight receivers covering 180 to 900 GHz, and the maximum angular resolution will vary from 0.1 to 0.4 arcseconds over the frequency range. This talk will present the latest scientific results obtained with the SMA on low and high mass star-forming regions and focus on the SMA studies of protoplanetary disks, the likely sites of the formation of planetary systems.

The Submillimeter Array is a joint venture of the Smithsonian Astrophysical Observatory and the Academia Sinica Institute of Astronomy and Astrophysics.