The Cornell Caltech Atacama Telescope (CCAT)

Simon J. E. Radford,[a] Riccardo Giovanelli,[b] Jason Glenn,[c]
Thomas A. Sebring,[b] David Woody,[a] and Jonas Zmuidzinas[a]

[a] California Institute of Technology, Pasadena, CA
[b] Cornell University, Ithaca, NY
[c] University of Colorado, Boulder, CO

The CCAT will be a 25 m telescope for submillimeter astronomy located at 5600 m altitude in northern Chile. An international consortium has formed to carry out the project. CCAT will combine high sensitivity, a wide field of view (20'), and a broad wavelength range (2 mm–200 μm) to provide an unprecedented capability for deep, large area multi-color submillimeter surveys that complement narrow field, high resolution studies with ALMA. Science objectives include galaxy formation and evolution, star formation, protoplanetary and debris disks, and Kuiper belt objects. Instrumentation will include bolometer cameras, direct detection spectrometers, and heterodyne receiver arrays.