Title of Project	A Study of the Evolution of Large Scale Structures Based on the Ultra Wide Band
	Millimeter And Submillimeter Observations
Principal Investigator	Kotaro Kohno, The University of Tokyo, School of Science, Associate Professor
Name	
Abstract of	The goal of the project is to unveil the evolutions of the true star formation
Research Project	activities and large scale structures in the early universe. First, we will conduct
	unprecedented millimeter/submillimeter-wave surveys, which are very efficient to
	detect dusty starbursts in the early universe. A large numbers of dust enshrouded
	massive young starburst galaxies will be uncovered. Because they are often
	invisible in optical and infrared observations, it could be referred as "dark
Number of	galaxies". The distances (or epochs) of them will then be determined based on our
Researchers : 8	own methods. We will build a multi-color camera and ultra-wide-band
	spectrometers using superconducting devices, and they will be mounted on the
	new submillimeter telescope ASTE in Chile and other telescopes. From these
	results, we will unveil the true history of the cosmic star formation. The evolution
Term of	of dark matter distributions will also be addressed through the analysis of
Project: 2008-2012	clustering properties of galaxies.