

Interferometric Arrays During Spitzer and Beyond

Lee G. Mundy

(Email: lgm@astro.umd.edu)

Astronomy Department, University of Maryland, College Park, Maryland

Ground-based arrays at centimeter, millimeter, and submillimeter wavelengths will be developing major new capabilities during the next decade. The higher sensitivity and resolution afforded by the next generation arrays will enable new science in areas ranging from debris disk structure to the formation of the first galaxies. The largest new addition is the Atacama Large Millimeter Array (ALMA) which is funded and under construction with early operation at the end of 2007, and full operation by 2012. With its unprecedented sensitivity and resolution, and its high altitude site, ALMA pushes the boundary between traditional ground-based and space-based science. These arrays will be essential complements to space-based instruments.