

アルマ望遠鏡を用いたエキサイティングな研究への招待 Invitation to exciting sciences with ALMA

*長谷川 哲夫¹、下条 圭美¹、秋山 永治¹

*Tetsuo Hasegawa¹, Masumi Shimojo¹, Eiji Akiyama¹

1. 自然科学研究機構 国立天文台

1. National Astronomical Observatory of Japan, National Institutes of Natural Sciences

ALMA (Atacama Large Millimeter/submillimeter Array) provides unique opportunities of exciting discoveries through millimeter and submillimeter (84 - 950 GHz) imaging with very high spatial and spectral resolution and sensitivity. Polarimetric imaging is also possible. In this paper, we present the current observing capabilities of ALMA that are relevant to the studies of protoplanetary/debris disks around stars, a variety of solar system objects, and the solar chromosphere. Observing proposals are collected every year. After the 1-year period of proprietary use by the proposers, all the observed data becomes open to any reserachers as the ALMA archival data, which provides additional opportunities for discoveries. Interested readers are welcome to visit the following wibsites:

National Astronomical Observatory of Japan/ALMA

<http://alma.mtk.nao.ac.jp>

East Asian ALMA Regional Center

<http://alma.mtk.nao.ac.jp/e/forresearchers/ea-arc/>

ALMA Observatory

<http://www.almaobservatory.org>

キーワード：惑星系形成、太陽系天体、太陽、ミリ波・サブミリ波

Keywords: formation of planetary systems, solar system objects, the sun, millimeter and submillimeter waves