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■ Title

ALMA Study of Disk Formation around Protostars

■ Summary

In this research program, we aim to understand how “protoplanetary disks” form around protostars. From new ALMA observations including the ALMA Large Program as well as the ALMA archival data, we will study structures and motions of molecular gas around protostars from ~20 AU to ~10000 AU scales. We will also observe structures and strengths of magnetic fields in the disk forming regions with ALMA, which should influence disk formation significantly. From these studies, we will unveil how materials fall and form rotating disks around protostars, and how planet formation is initiated in these disks.