

NAOJ ALMA Scientific Research Grant 2019

Motohide Tamura (The University of Tokyo)

■ Title

Planet Formation Studies in Asymmetric Protoplanetary Disks

■ Summary

In this program we will promote both radio (ALMA) and infrared (Subaru) observations as well as observations with other telescopes to put constraints on the origin of the asymmetric structures of some protoplanetary disks, such as vortices, gravitational contraction, and planets/companions. We aim to understand the main mechanisms including core accretion and gravitational instability of the planet formation in these disks.