Yoko Oya(Kyoto University)

■ Title

Observational Study of Disk Formation around High-Mass Protostars -What is the Universal Picture from Low-Mass to High-Mass?-

■ Summary

Rotating disks associated to protostars are thought to play a significant role both in the formation of planetary systems and the evolution of protostars. Despite their importance, we have only a conceptual understanding of disk formation, both observationally and theoretically. It has recently been revealed that the drastic changes in the physical structure and the chemical composition of disks are deeply related with each other in low-mass protostars. This project aims to understand the formation of rotating disk structures over a wide range of stellar masses and spatial scales. To achieve this goal, we will observationally characterize a large number of disks associated to high-mass protostars. This novel physical and chemical characterization will be confronted with compiled results in the low-mass regime to draw a comprehensive picture of disk formation.