

# High-Angular-Resolution Observations of Protoplanetary Disks

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The recent progress in understanding of planet-formation process will be reviewed based on the results obtained at high angular resolution with astronomical facilities such as the Atacama Large Millimeter/submillimeter Array (ALMA). Circumstellar disk structures around young stars are birthplaces of planets. The physical and chemical condition in such protoplanetary disks can be linked to some extent to the planetary environment (e.g., atmospheric composition) where further chemical reactions might lead to formation of building blocks of life. This presentation includes the topics on detailed disk density structures at  $\sim 5$ -au or better resolution, gas detections in the later stages of disks where the collisional events in the planetary systems may happen, detections of organic molecules, and the prospects on disk observations in future.

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