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Rings and Gaps in the HL Tau Disk Revealed by ALMA

ALMA has recently observed the circumstellar disk surrounding the young star HLTau, revealing a dramatic structure of bright rings and dark gaps while achieving an spatial resolution of 3.5 AU. These observations span a range of wavelengths, between 0.87 to 2.9 mm, and encompass both emission from the dust continuum and several spectral lines that trace the gaseous component of the disk. I will describe these ALMA Long Baseline Campaign observations, and discuss some of the observational constraints that this image places in the process of planet formation.