

Molecules and planets in the outer Galaxy: is there a boundary of the Galactic Habitable Zone?

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Disks at low metallicities

Over the past decade, technological advancements have enabled spatially resolved studies of disks around young stars at larger and larger distances, opening up studies of these objects in environments that differ from those of the Solar neighborhood, and culminating in the recent discovery of a Keplerian disk around the driving star of HH 1177, a massive young stellar object (MYSO) in the low-metallicity environment of the Large Magellanic Cloud. Starting from the HH 1177 system as a benchmark for extragalactic low-metallicity studies, I will discuss what observational and computational work is being carried out to capitalize on this discovery with the aim of better understanding how disks around low-metallicity MYSOs evolve on the one side, and what the impact of exposure to low-metallicity stars is on disks around lower mass YSOs.

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