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Radiation thermo-chemical modeling of planet forming disks

Tuesday 7 June 2022 13:30 (30 minutes)

With the advent of high spatial resolution ALMA data and the prospect of JWST data in the near future, we have entered an era where the limitations of simple disk models are becoming clear. The data reveal to us the complex interplay between gas and dust in disks, which happens not only at the level of physics (heating/cooling) and chemistry, but also at the level of radiative transfer. I will discuss in this talk recent advances in radiation thermo-chemical disk modeling and address open issues and directions for improvements both in terms of radiative transfer methods, but also require atomic/molecular data.

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