

How Different Protostars Are in a Growing Binary System?

IRAS 16293-2422, consisting of two protostars with distinct spectral line features, is a well known hot corino that possesses many organic molecular lines and is great for studying thermal conditions of their disks. Earlier studies have suggested the two protoplanetary disks show distinct kinematics and different thermal conditions, perhaps due to age difference. The goal of this study is to extract essential information of the two protostellar disks as a first step for later comparison studies with detailed radiative transfer models. This project will process the ALMA Science Verification data in Band 6 (and Band 9 if time allows).