OUTFLOWS AND MAGNETIC FIELDS IN L1448 IRS3

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Although stars are thought to form in dense molecular clouds through gravitational contraction, the details on star formation initiation are still controversial: e.g. ambipolar diffusion or turbulence. In order to better understand the initial stages of this process, the youngest stars should be studied. Unfortunately, however, due to the embedded nature of these systems, producing a clear picture of the circumstellar environment of the youngest stars is difficult. A good example of this is the dark molecular cloud L1448 IRS3 that includes three Class 0 sources (protostars). We present the first polarimetry observations of the large-scale dust continuum polarization from SCUBA, high resolution $\lambda = 3$ mm dust continuum, and H¹³CO⁺ and N₂H⁺ observations from the BIMA array, we develop a detailed view of the star formation in this source. Finally, we suggest a composite structure of circumstellar material, outflows, and magnetic field.