# Protostellar wind observations from ALMA

A study of systems B228 and B335

### Context

During star formation mass is lost from the accretion disk through molecular outflows and or atomic jets. Protostellar winds do take a role in this, too.

Is suspected that during these processes the system's mass budget might be affected.

## Research objectives

1. Find evidence of mass loss due to winds, atomic jets and molecular outflows in two protostellar systems.

2. Establish a premise of how frequent the phenomenon is amongst similar protostellar systems.

3. Visually represent the data from ALMA-telescope as a proof of a significant material ejection in young forming stars.

# **Experimental Data and Methodology**

Datasets are available from ALMA's recent observations coming from high-frequency bands.

Data is to be analyzed in search of similar behavior to that of a previous case study awaiting for publication.

Imaging techniques using CARTA and numerical processing of the data will allow to draw conclusions.

### Next steps

- 1. Continue to explore the literature about observational studies of B228, B335 and HH212, winds and other mass ejection mechanisms in forming stars.
- 2. Review of academic documentation on protostellar processes as of current understanding.
- 3. Learn the efficient use of CARTA, CASA and programming languages oriented to data analysis in order to process the datasets from ALMA.