

Proposal for 2017 China-CONICYT Postdoc Fellows

Title: Interstellar chemistry in cold dense clouds

Abstract: A variety of large observation projects are going on to explore the physical and chemical nature of nearby cold dense molecular cloud cores and the star formation in them. A postdoc is invited to work with us (and related international teams) to understand the interstellar chemistry in these nearby cold cores in a variety of Galactic environments. The goal of this position is to use numerical astrochemistry models to achieve a uniform interpretation to all line data obtained from the involved observation projects and, through this practice, move forward the frontier of cold gas interstellar chemistry.

Proposers:

- 1) (PI) **Shengli Qin**, Department of Astronomy, Yunnan University, qin@ynu.edu.cn
- 2) **Jinhua He**, Yunnan Observatories, Chinese Academy of Sciences, jinhuahe@ynao.ac.cn
- 3) **Diego Mardones**, Departamento de Astronomía, Universidad de Chile, diego@das.uchile.cl
- 4) **Natalia Inostroza**, Instituto de Ciencias Químicas Aplicadas, Universidad Autónoma de Chile, Natalia.inostroza@uautonoma.cl