

Science News & Journal Club Public Talk



时 间: 2017年12月8日 12:15 - 1:45pm

地 点: 紫台仙林园区3号楼402室

Science News:

报 告 人: 王建法

Journal Club Public Talk:

报 告 人: 杨 旻

报告题目: **Infall motions in massive star-forming regions**

报告摘要: Massive star-forming regions with observed infall motions are good sites for studying the birth of massive stars. Previous studies indicated that infall motions would produce redshift self-absorption in the optically thick lines, what we call it Inverse P-Cygni Profile (blue profile). We can use this special line profile to identification of infall candidates. Based on this, we search for infall motions towards 405 compact sources from the results of the ATLASGAL and the MALT90 survey, and classify the elected star-formation clumps into three evolutionary stages: pre-stellar, proto-stellar and UCHII regions. The results suggest that infall motions accompany the high-mass star-formation process, and dominate the early stage of high-mass star formation.

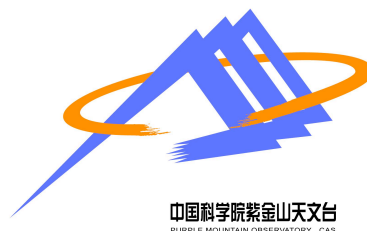
主要参考文献:

Yu-Xin He et al. MNRAS 450, 1926-1936, 2015

Mardones et al. ApJ, 489:719-733, 1997

Leung & Brown. ApJ, 214:L73-L78, 197

欢迎大家
积极参与!



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