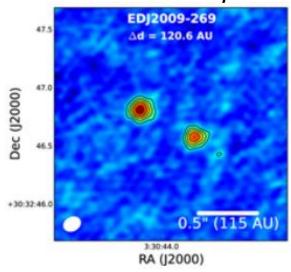
Group5 Perseus 120

김정욱

Introduction

- Enoch+ (2009): spitzer observation
 - Near & Far infrared
 - EDJ2009-269

- Tobin+ (2016): VLA observation in 13,14
 - Seperation~0.524"
 - ClassII + ClassII



Data

Band-6 ALMA data	
PI name	Tobin
Project code	2013.1.00031.S
Target source	YSOs with multiple system in Perseus
Distance	~230pc
heta	~0.16"
FOV	~25"

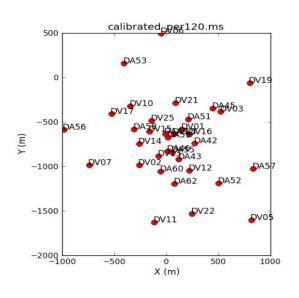


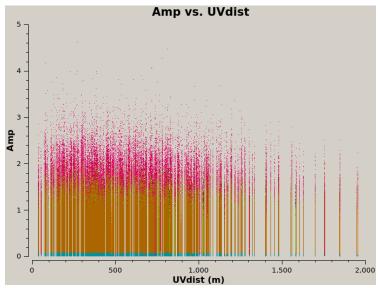
Per 120

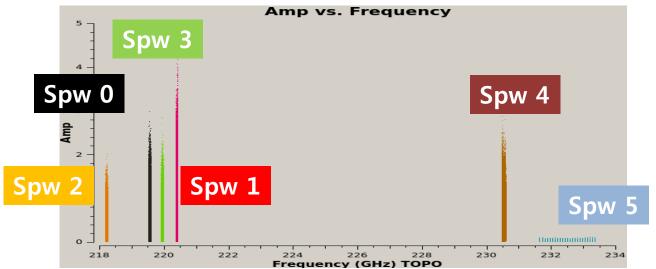
RA 03:30:44.014

DEC +30:32:46.812

Data







Goal

 Plot continuum & line channel map to know how to make binary system in solar-like stars.

 Whether large scale fragmentation of gas cores and filaments, or smaller scale fragmentation of protostellar disk due to gravitational instabilities?

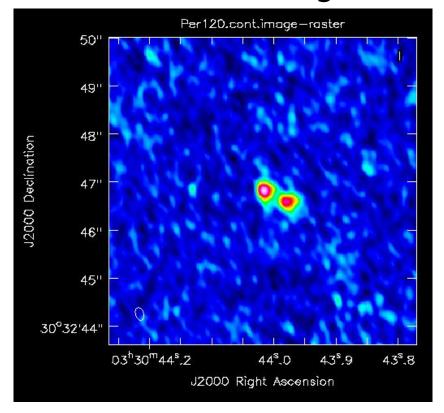
Results -continuum

Dirty map

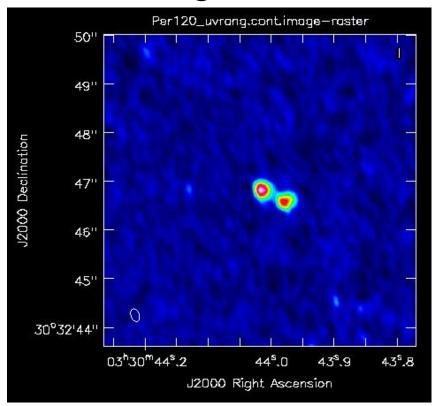


rms = 0.2mJy/beam

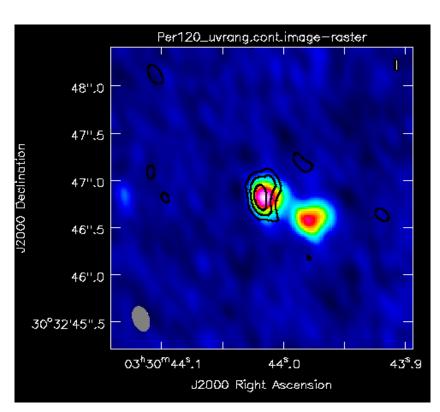
Continuum image



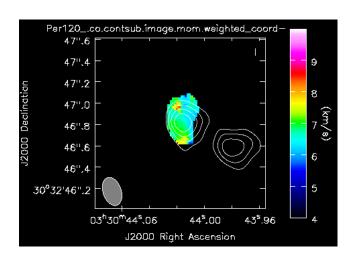
UV range > $50k\lambda$



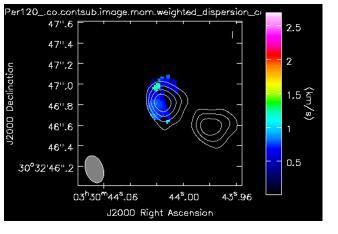
Results -line



CO line contour

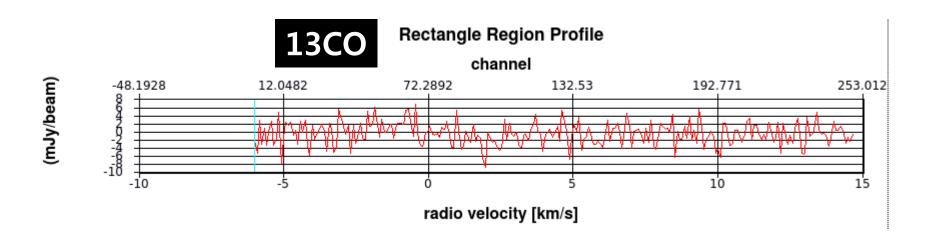


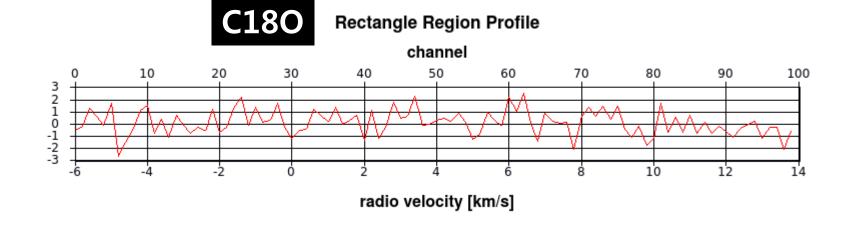
mom 1



mom 2

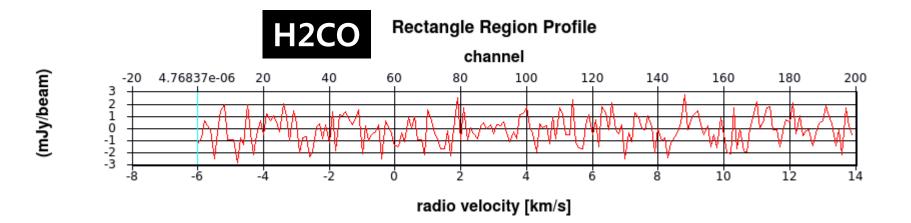
Results -line

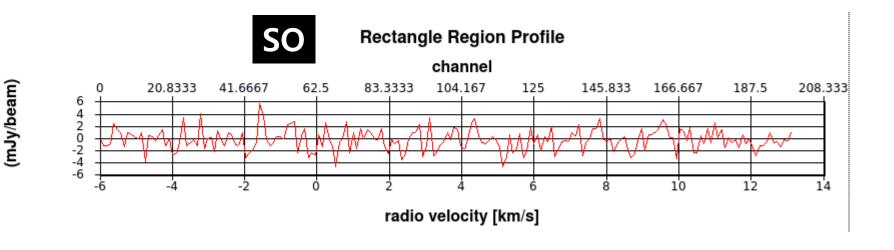




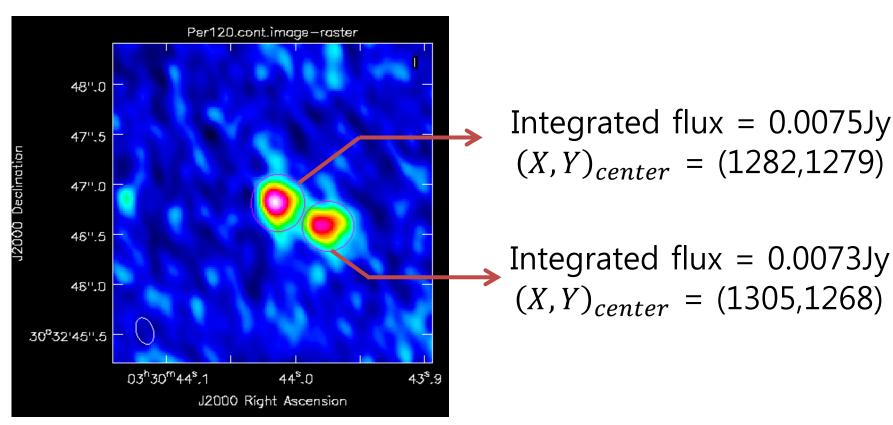
(mJy/beam)

Results -line





Discussion



Separation ~ 0.517"