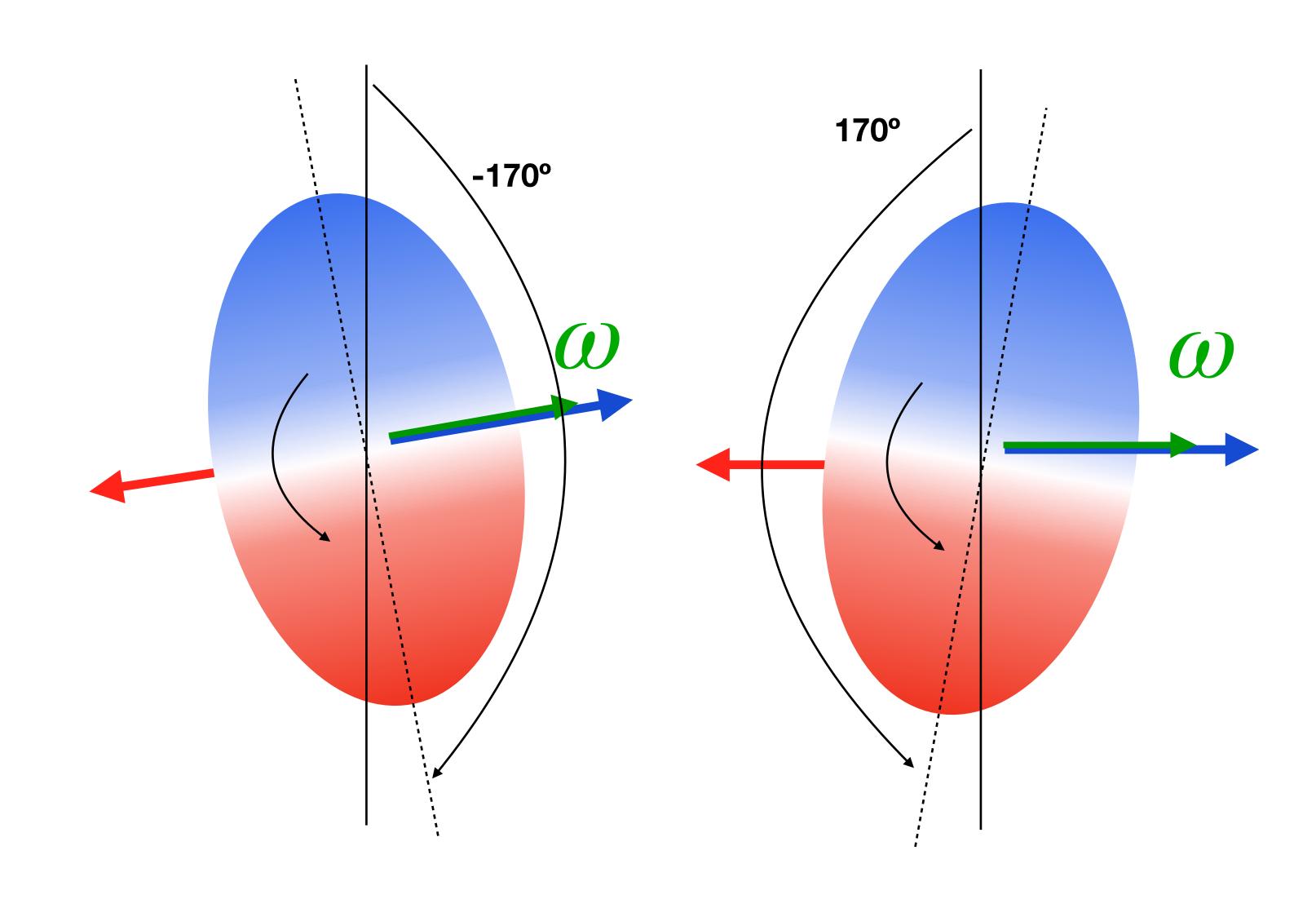
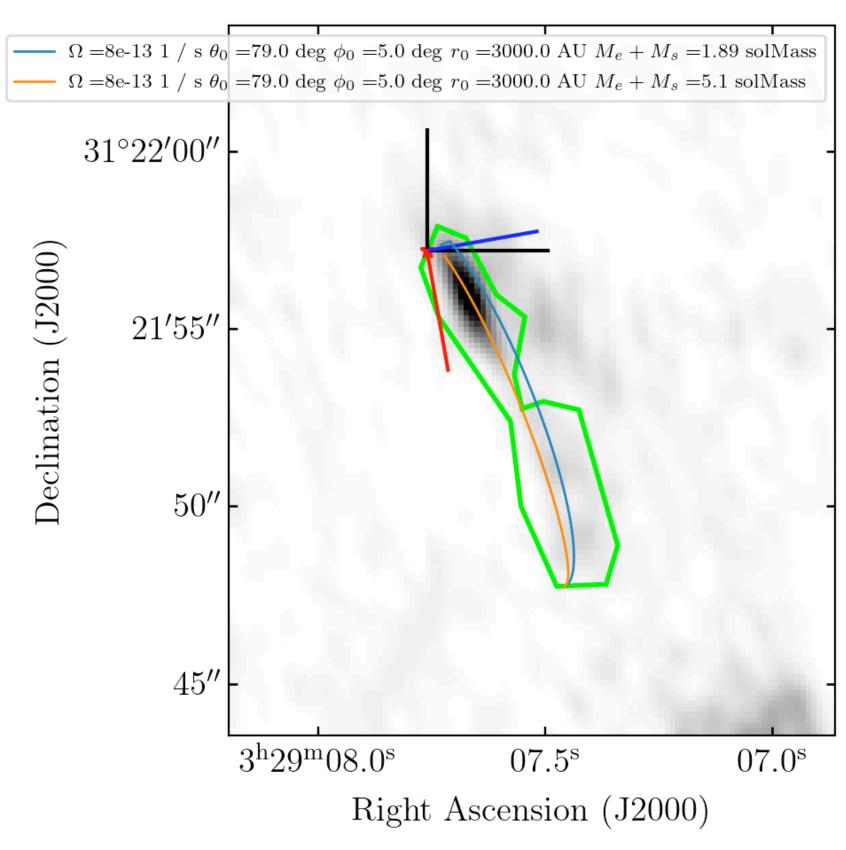
Streamline model: disk angles correction

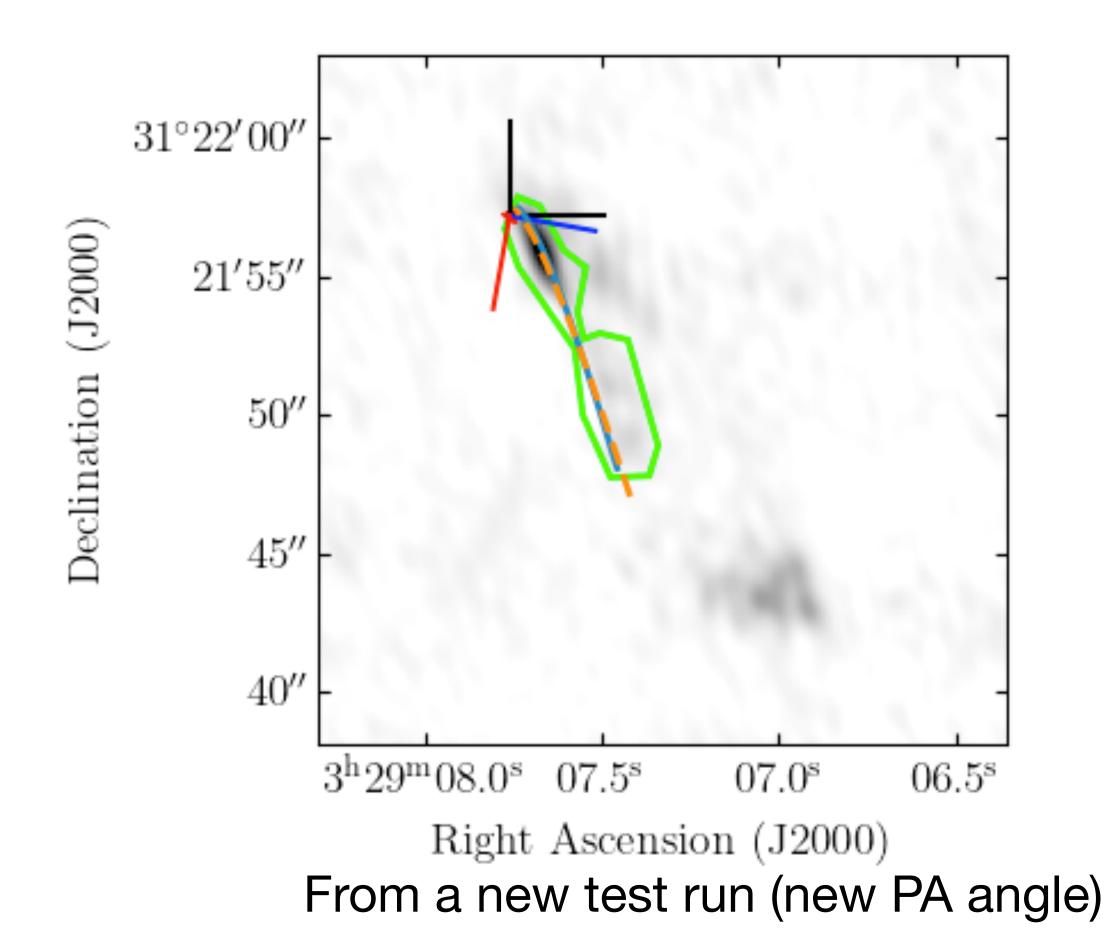
- I placed -170° instead of 170° as PA in my model
- Confusion with West and East :(
- Learned the lesson, corrected the angles
- The following slides show the correct models and parameters for H₂CO emission and PV diagrams



How does this correction look in the image plane?



From an old test run (old PA angle)



Streamline in H₂CO correction

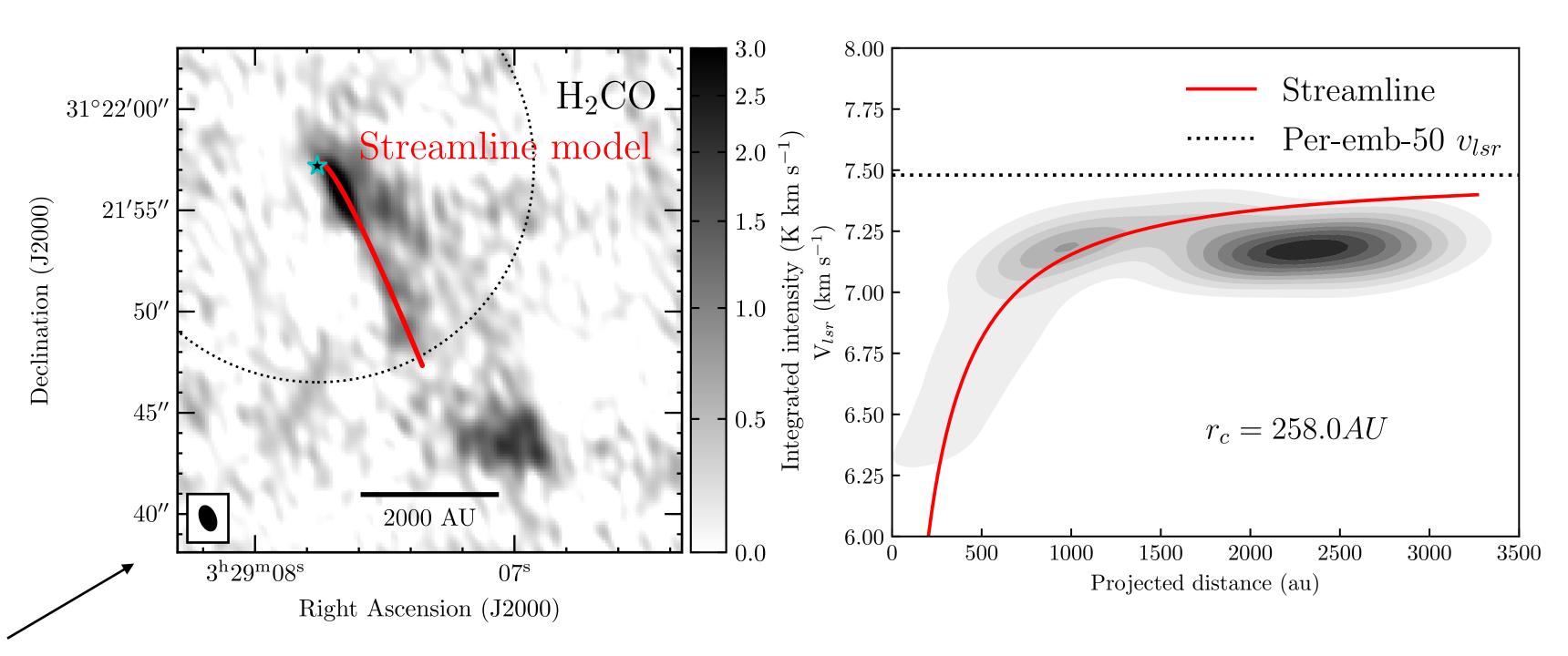
Old PA (-170°)

Envelope Mass (M _{sun})	0.18
$ heta_0$ (deg)	80
ϕ_0 (deg)	16.5
r ₀ (AU)	3330
Ω_0 (s ⁻¹)	1.15E-12
v _{r0} (km s ⁻¹)	1.1

New PA (170°)

Envelope Mass (M _{sun})	0.18
$ heta_0$ (deg)	61.5
ϕ_0 (deg)	28.0
r ₀ (AU)	3330
Ω_0 (s ⁻¹)	4.53E-13
v _{r0} (km s ⁻¹)	1.25

 $M_{env} = 0.18 M_{sun}$



What changes most are the angles θ_0 , ϕ_0 and the velocity needed to replicate the same streamline model as before

Streamline in H₂CO correction

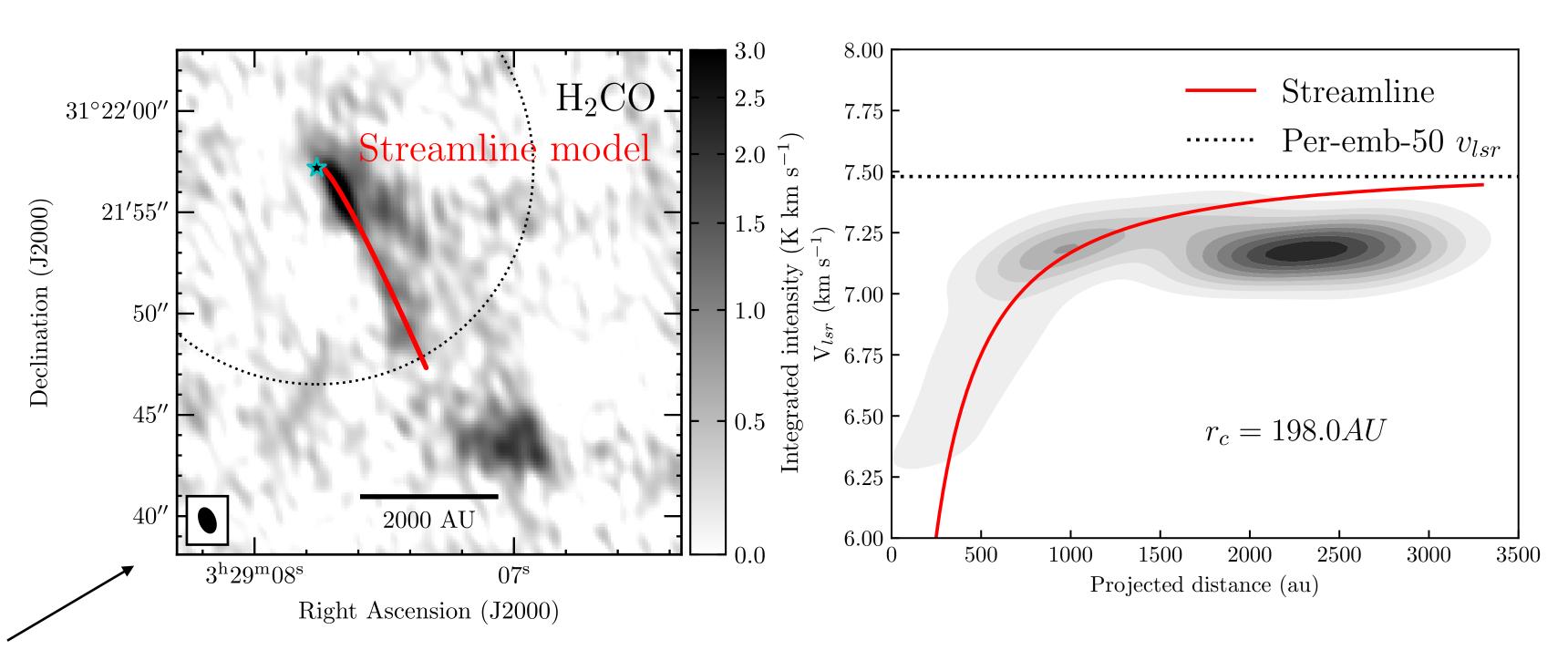
Old geometry

Envelope Mass (M _{sun})	2.2
$ heta_0$ (deg)	80.5
ϕ_0 (deg)	17.5
r ₀ (AU)	2863
Ω_0 (s ⁻¹)	5.35E-13
v _{r0} (km s ⁻¹)	2.6

New geometry

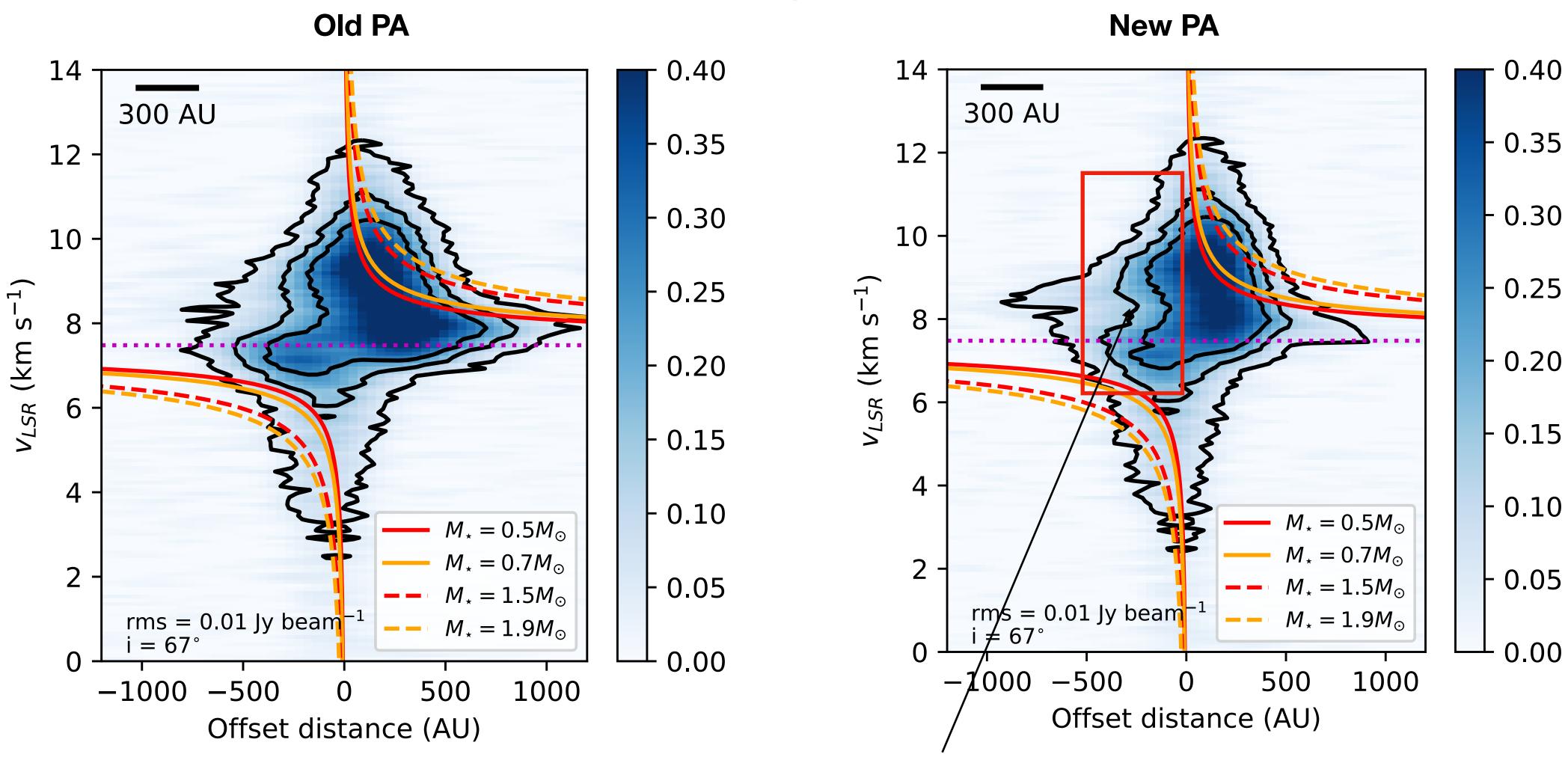
Envelope Mass (M _{sun})	2.2
$ heta_0$ (deg)	59.0
ϕ_0 (deg)	25.6
r ₀ (AU)	3330
Ω_0 (s-1)	5.35E-13
v _{r0} (km s ⁻¹)	1.6

 $M_{env} = 2.2 M_{sun}$



What changes most are the angles θ_0 , ϕ_0 and the velocity needed to replicate the same streamline model as before

Position-velocity corrected plots



suggestion for infall (red and blueshifted emission in negative offset)