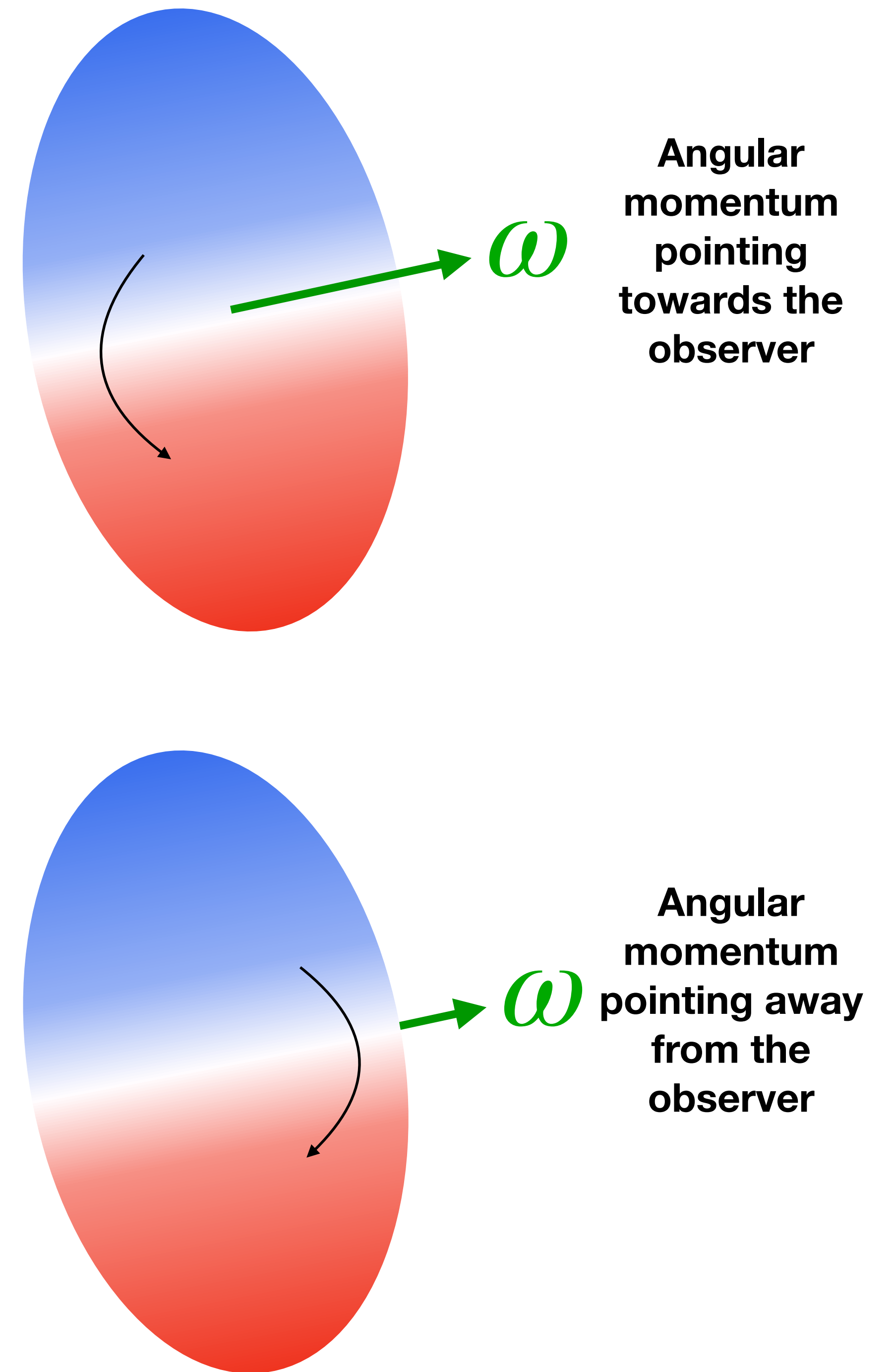
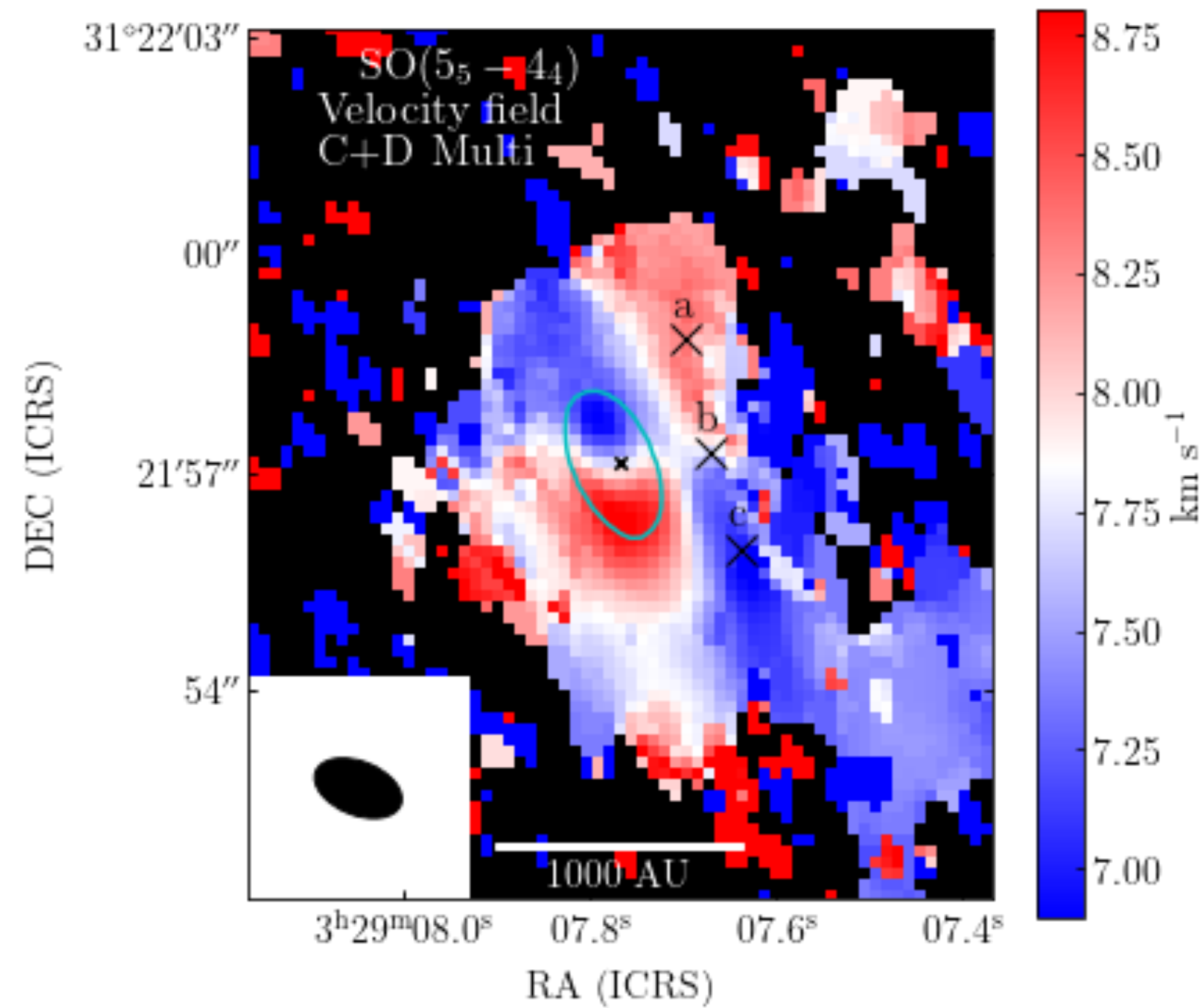
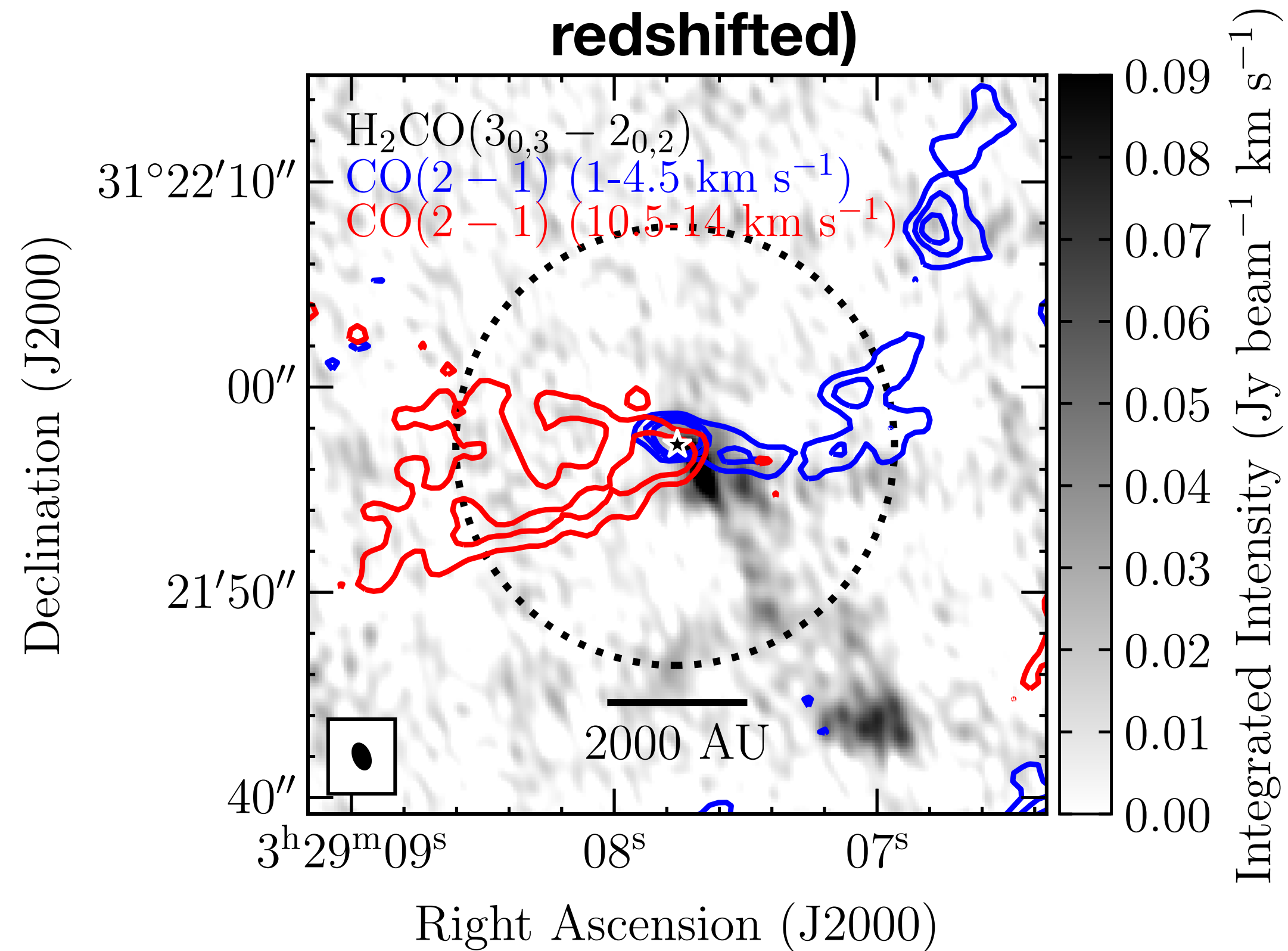


SO(5₅-4₄) velocity field

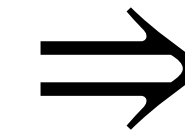


H₂CO(3_{0,3}-2_{0,2}) with CO(2-1) (MASSES) integrated intensity (blueshifted and redshifted)



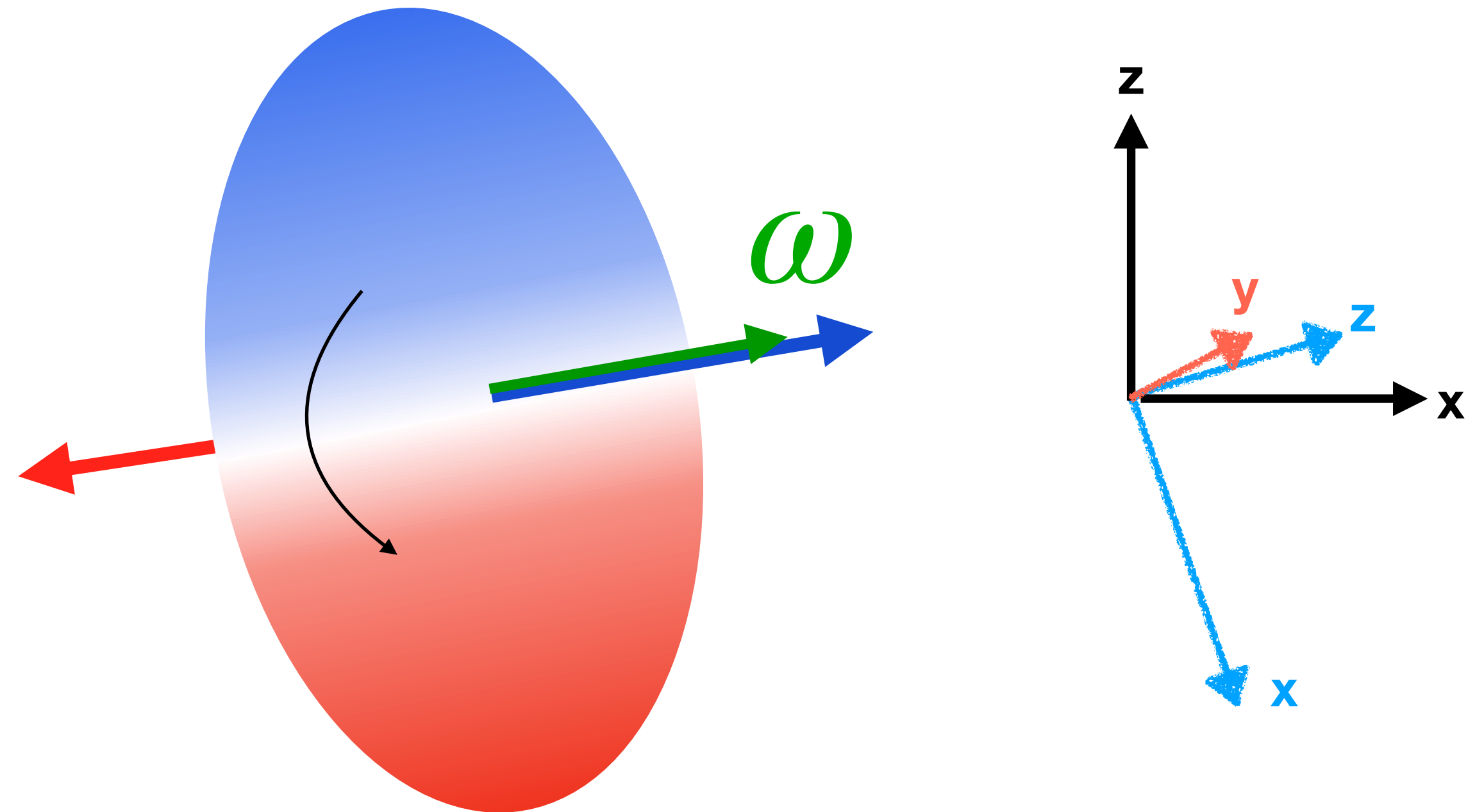
Agurto-Gangas et al. 2019
updated values (d=293 pc):

- i=67 deg (i=0 is face-on)
- PA=170 (from north)



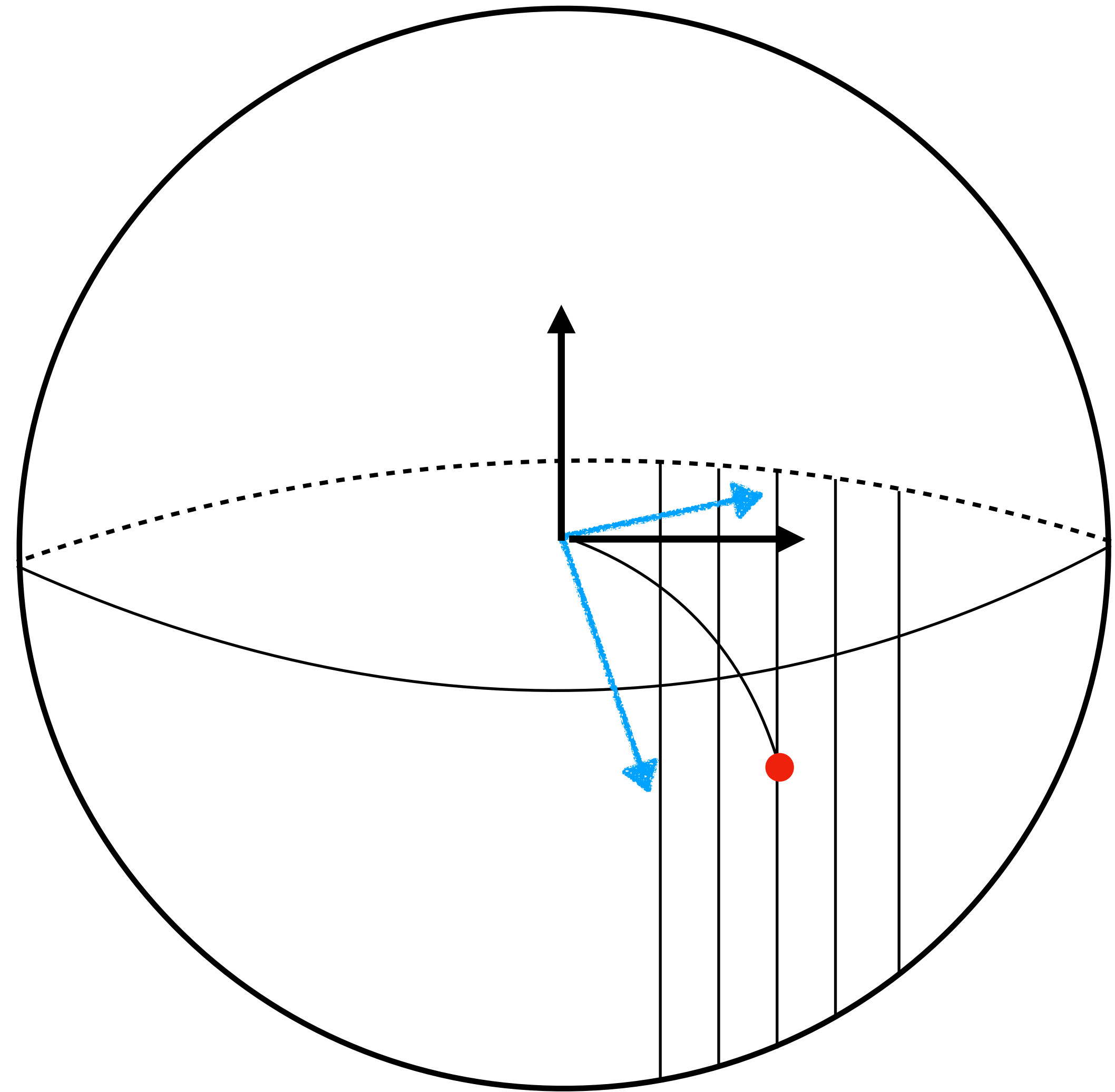
In velocity_tools (Jaime Pineda)
coord. system:

- i=-23 deg (i=0 is edge-on, i>0 goes behind)
- PA=80 (from west)



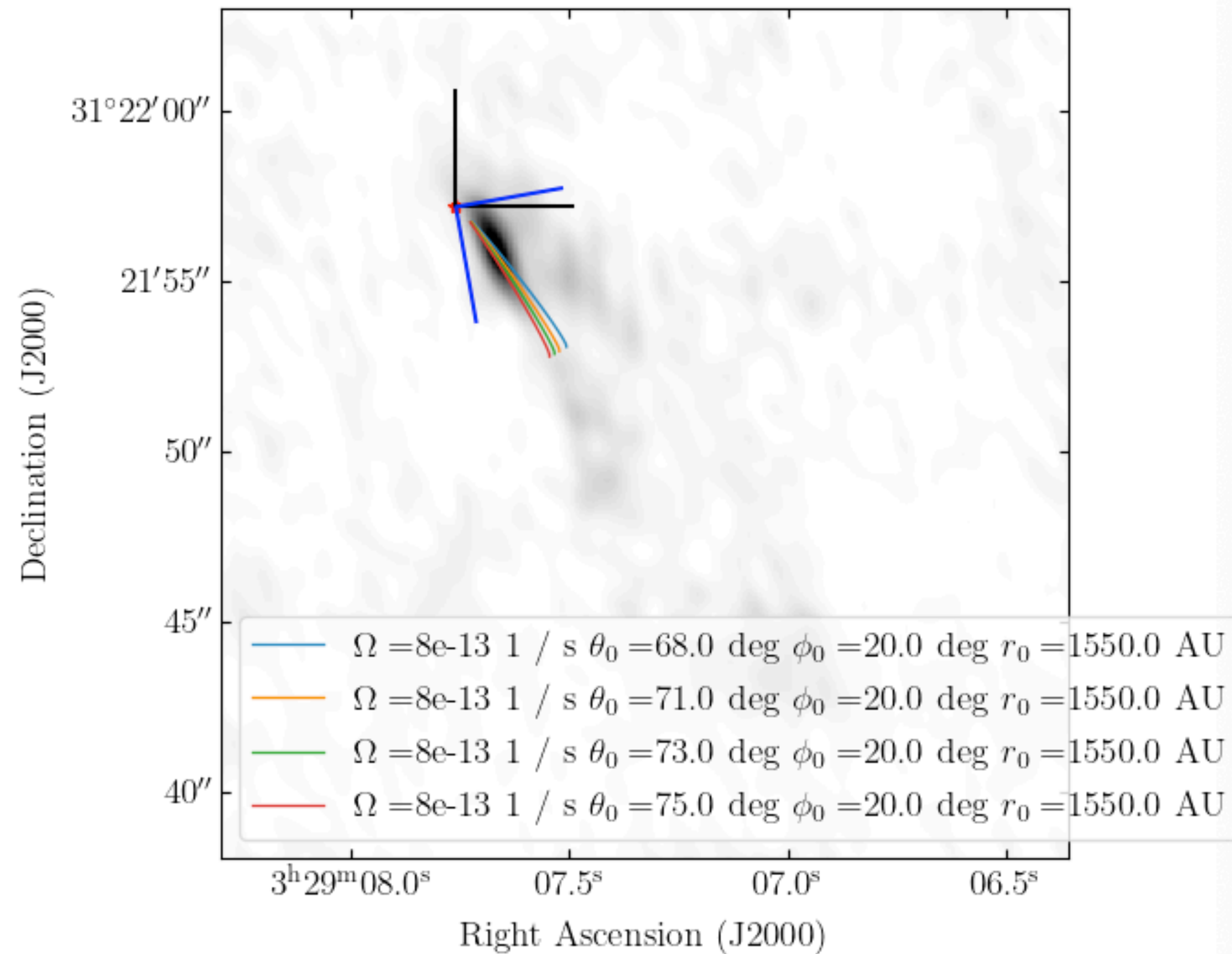
**Because of the rotation diagram, it does not
make sense to place the z axis with the red
outflow**

- $M_{\text{disk}} = 0.58 M_{\odot}$ (Agurto-Gangas et al. 2019, adapted from Segura-Cox et al 2016 for a $d=293$ pc)
- $M_{\text{star}} = 2.9 M_{\odot}$ (from Agurto-Gangas et al. 2019 two-phase model, this was a fixed parameter)
- $M_{\text{env}} = 2.2 M_{\odot}$ (Agurto-Gangas et al. 2019, adapted from Enoch et al 2009 for a $d=293$ pc)
- For now, I am adding up the three
- Has to come from behind towards the front (shaded area)
- It works in the projection distance $v/s v_{\text{lsr}}$, but the r_c was too small (10 AU)



Best attempt for now:

- **Theta0 = 70°**
- **Phi0 = 20°**
- **r0 = 1550 AU**
- **Omega0 = 8e-13 s-1**
- **v_r0 = 0 km/s**



The plot here varies theta slightly around 70°

