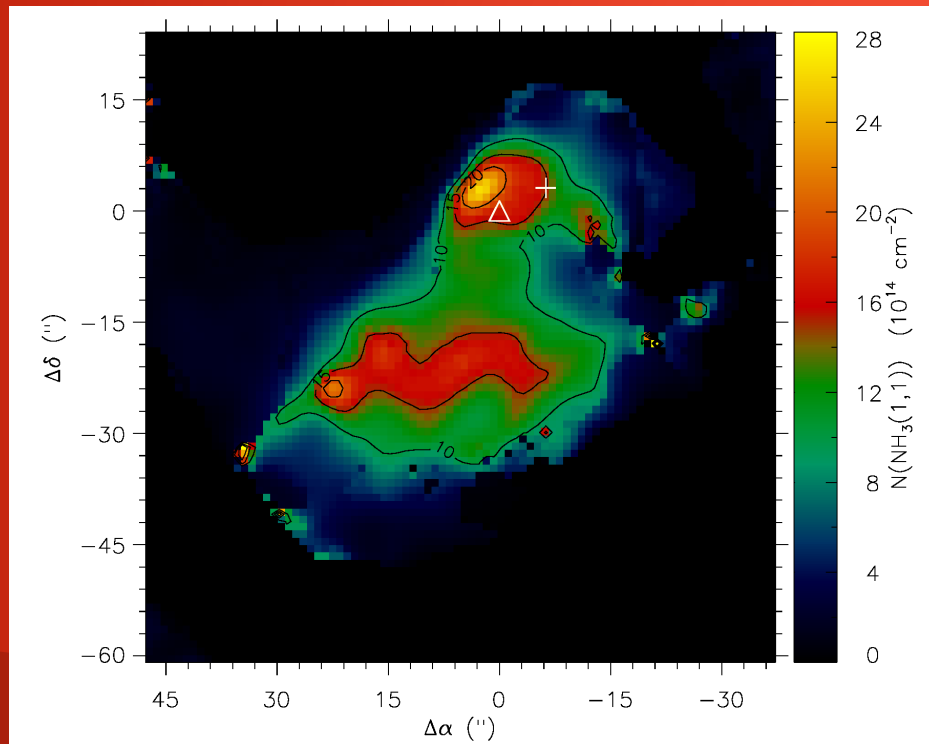
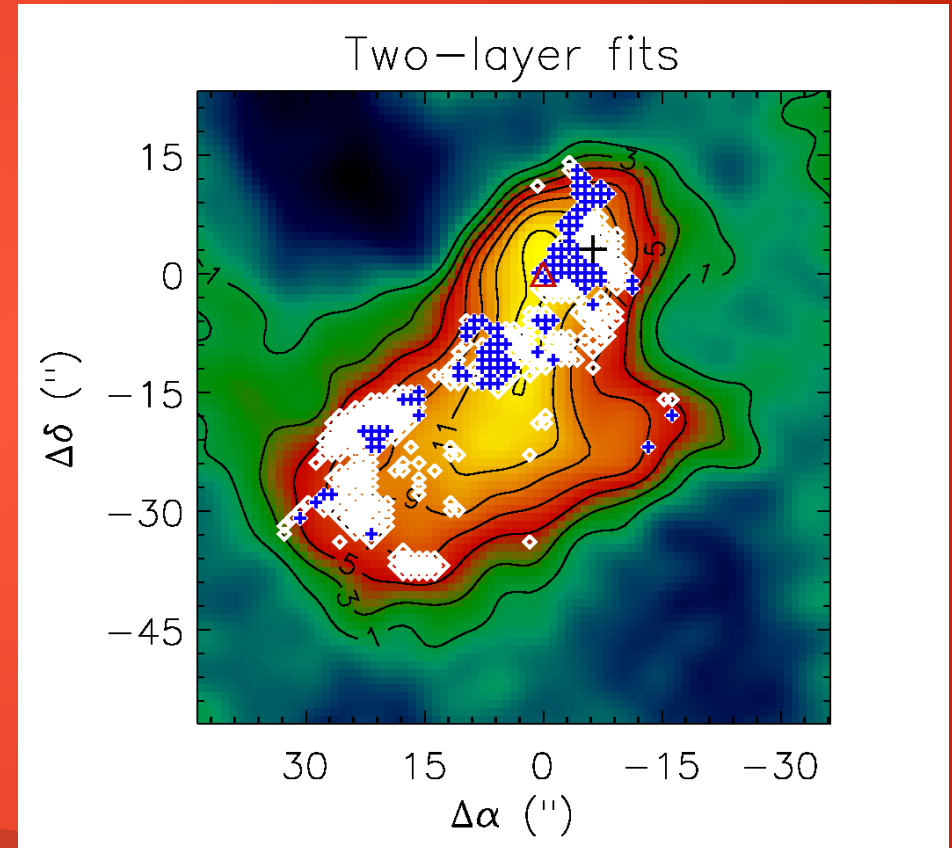


# A look into turbulence and star formation



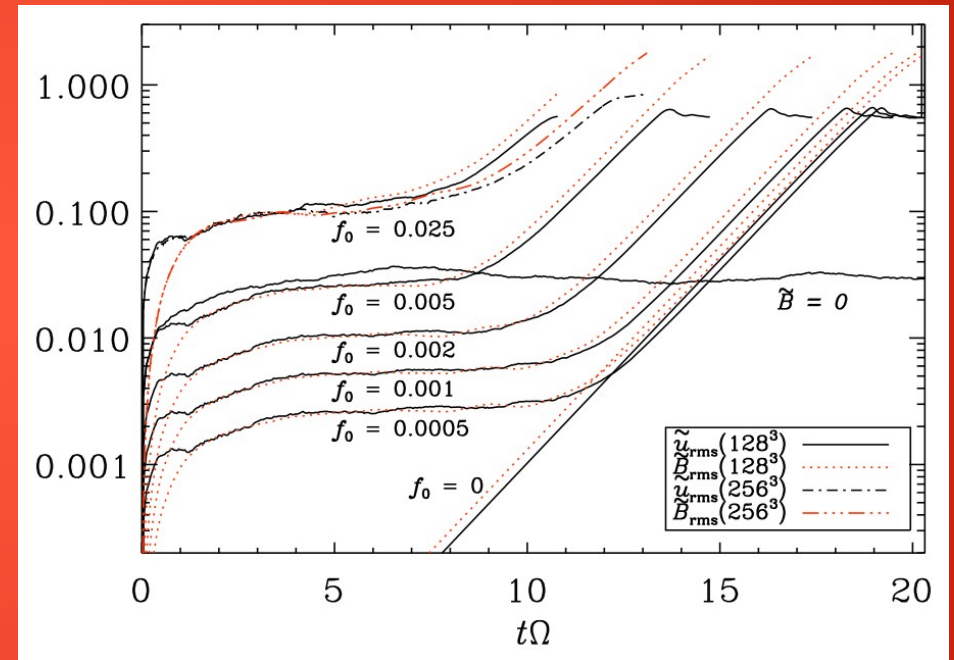
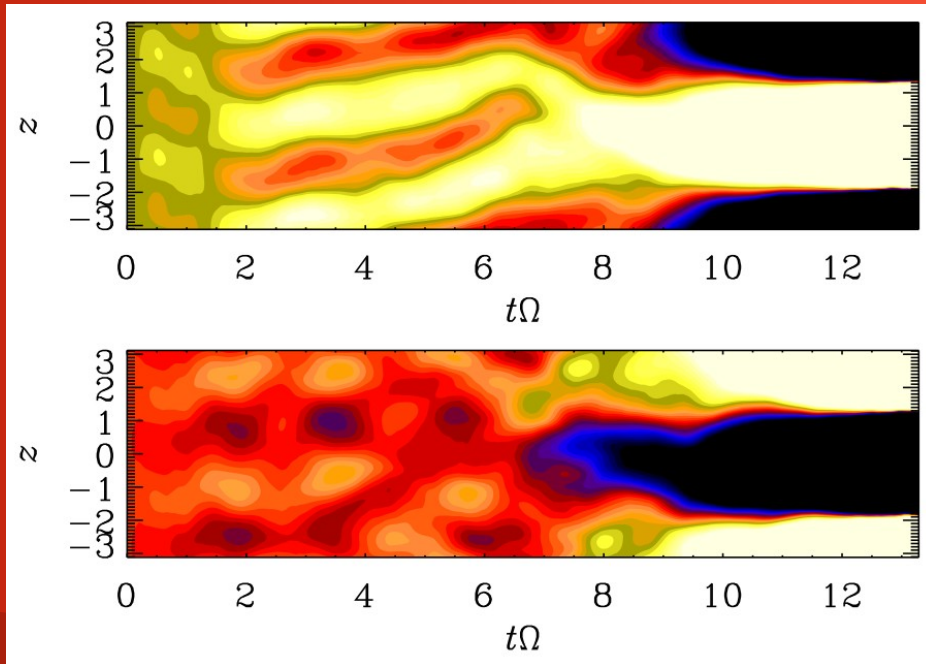
$\text{NH}_3$  observation of Chamaeleon-MMS1  
Väisälä, Harju et al. (2014)

*Now we have also  $N_2H^+$  data from ALMA!*



Miikka Väisälä

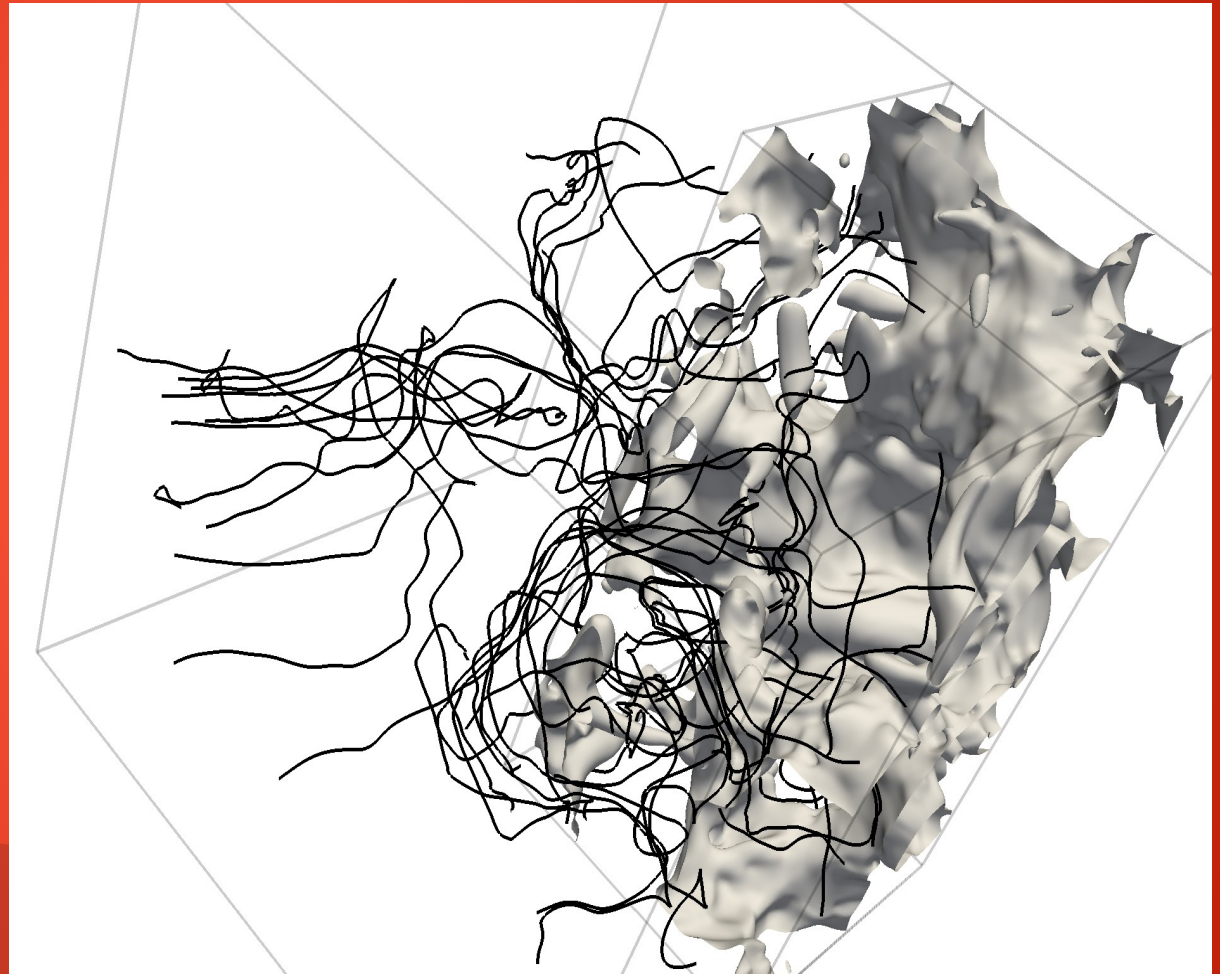
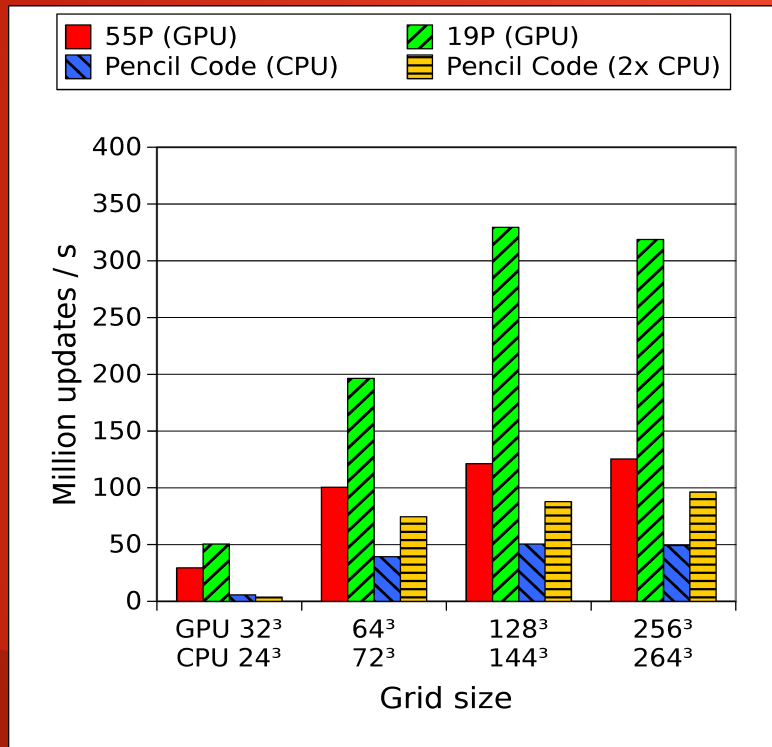
# ISM and accretion disk turbulence



Turbulent diffusion and magnetorotational instability  
Väisälä, Brandenburg et al. (2014)

# Astaroth code

GPU acceleration for (M)HD with 6<sup>th</sup> order finite differences



Pekkilä, Väisälä et al. (TBA)  
Väisälä, Pekkilä et al. (TBA)