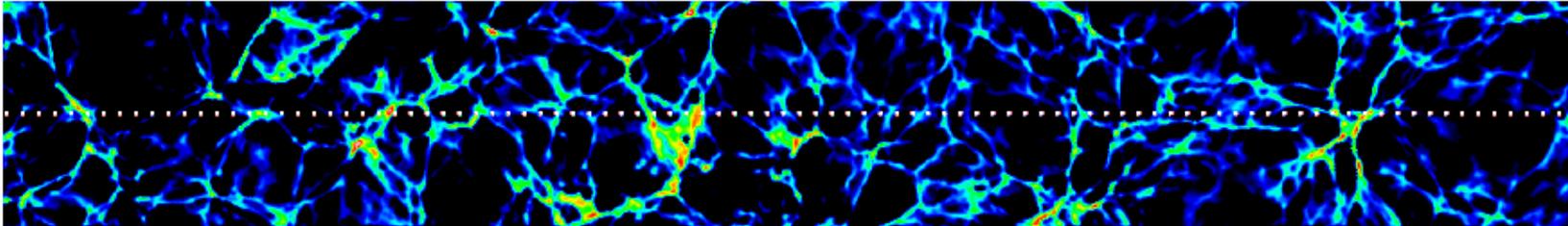


# Absorption Line Predictions



Line of sight  
through  
favorite  
simulation

- Blind search of Universe for hot gas with O VII
- Then look for hosts
- Lines under-resolved by 20x
- Detections are 1 pixel depressions (5% depth)
- S/N limit determines science explored
- S/N = 50-100 (nominal) reaches dense parts of galaxy halos (groups?)
- Need S/N  $\sim$  500 to get outer galaxy, Cosmic Web
- Need best energy resolution a calorimeter can deliver

