







moving

moving

cooling

cooling

low resolution



# Are the phases in pressure equilibrium?

Yes, unless they are:

-moving too fast

$$t_{\text{flow}} < r/c_s$$

-cooling too fast

$$t_{\text{cool}} < r/c_s$$

-too low resolution

$$t_{\text{cool}} < \Delta x/c_s$$

*-large non-thermal pressure (week 3)*



# out of pressure equilibrium

*supersonic motion*

*H*

