Arras meeting 11-19-24

Write loops

- Loops through different Athena output files in directory
- Different png files
- Stick all in directory —> preview to open up and ask preview to open up every png file in directory
  - Have all box
  - Click on down arrow
- Initial transits in beginning of solutionn that are settling down
  - Plot average after it settles down
- Run pb4.e6 longer
- Try running things in parallel
  - Change location of Athena directory
  - Load in thermtide.cpp, runscript, and athinput into 6 different directories
  - Try running it for 15 mins at the same time
- Three key time scales
  - Angular frequency of rotating frame (rotating period)
  - Orbital period only appears in torque formula
  - Thermal time = 100 s at a minibar, gets longer proportional to pressure
    - Simulation time should be longer than thermal time at base of computational domain
  - Here's pb, plug into formula, what is time relevant to thermal time?
- 1 heating and 1 cooling cycle for piece of gas per rotation period
  - Should see things varying on time scale
- Oscillations on time scale of rotation period due to thermal forcing
- Look for word restart on the website