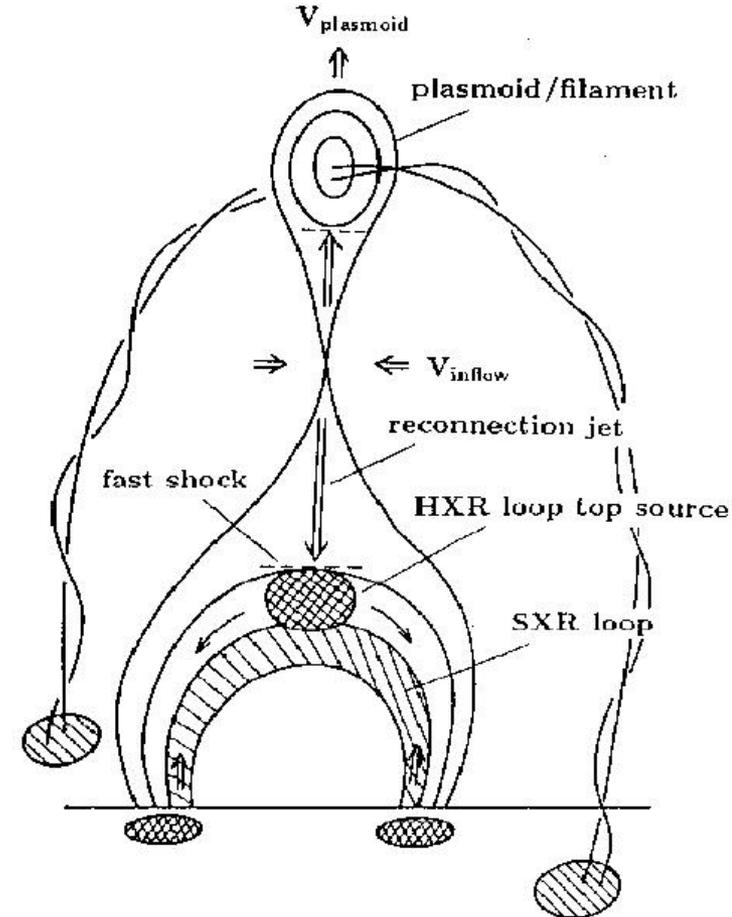

Post Reconnection Evolution of a Flux Tube (PREFT)

Patrick McCreery

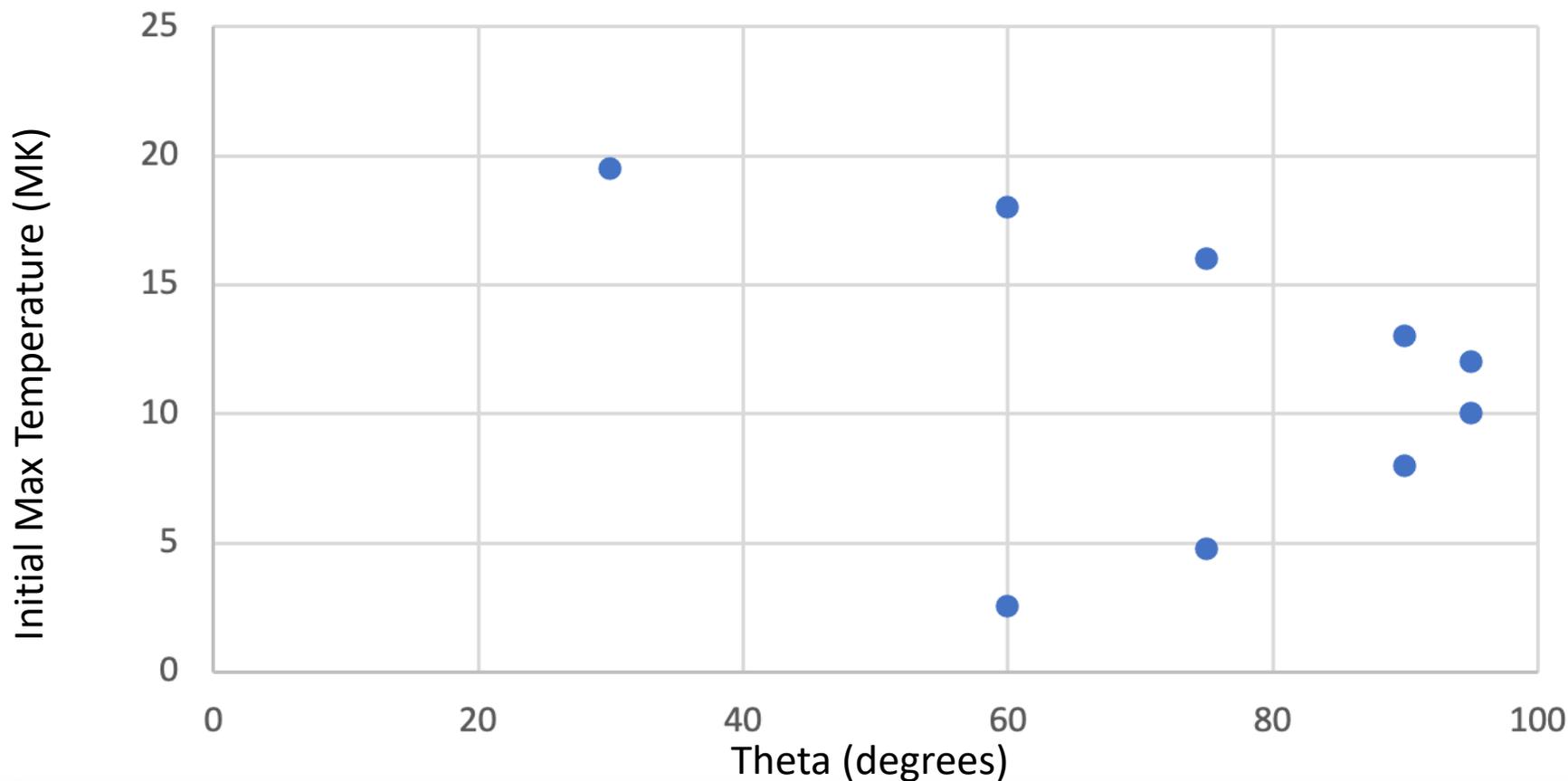
First 2 Weeks

- PREFT
 - Learning the code and the physics
 - See how the evolution of the FT changes with different parameters
- Plotting
 - Learn about the structure of the data PREFT provides
- Animating
 - Look at the evolution of the flux tube and the properties over time



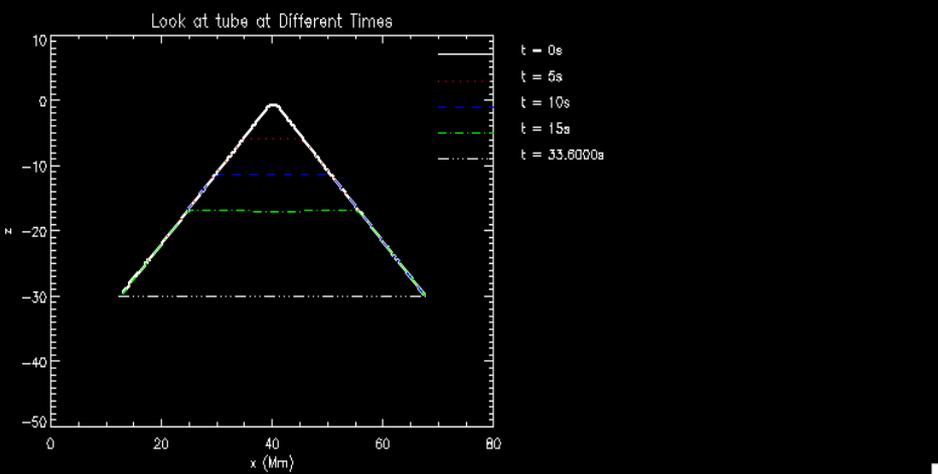
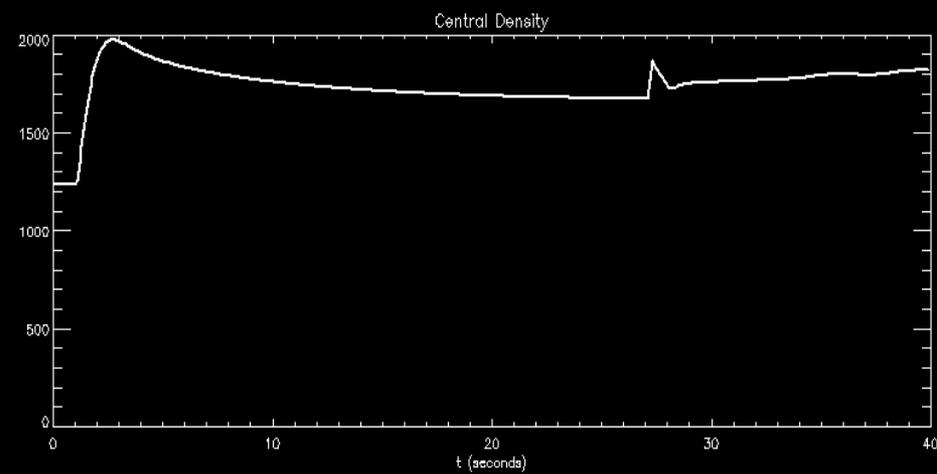
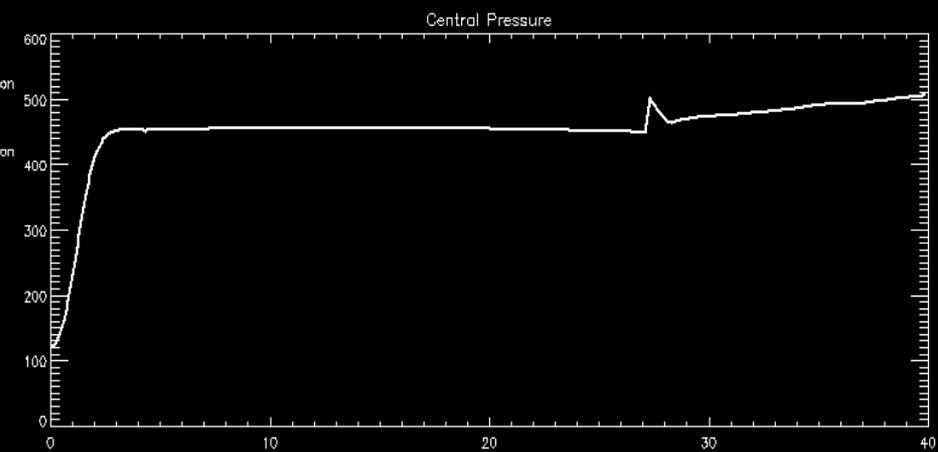
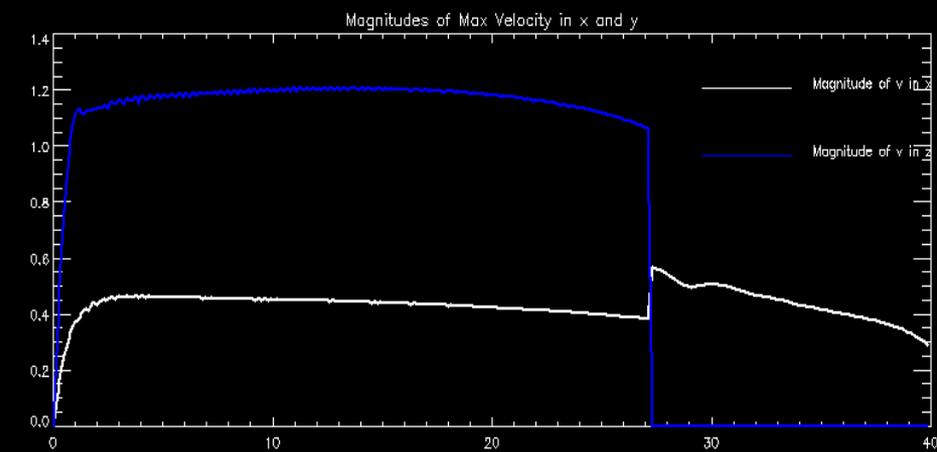
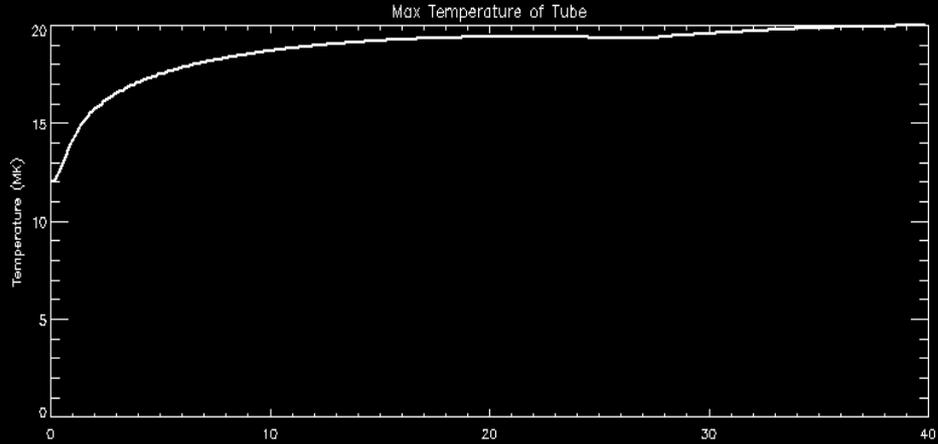
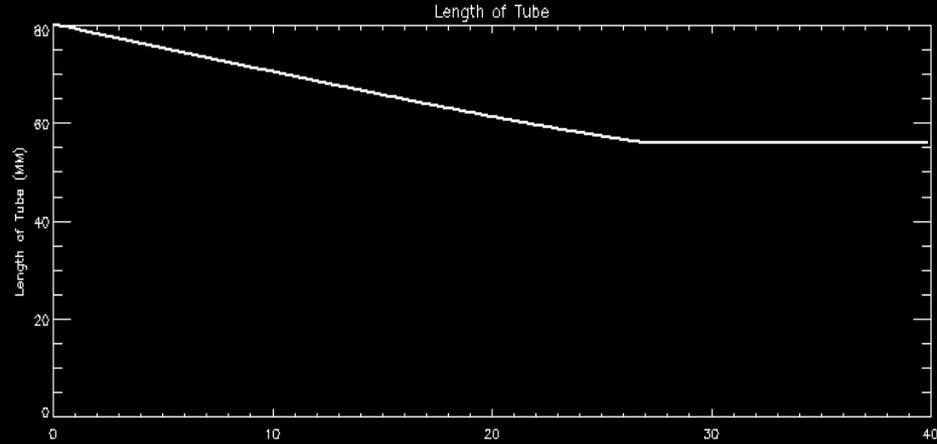
Last 2 Weeks

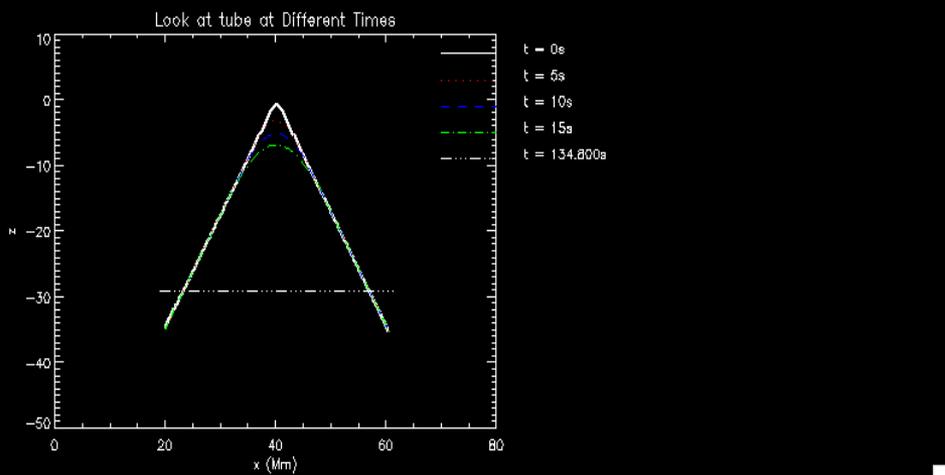
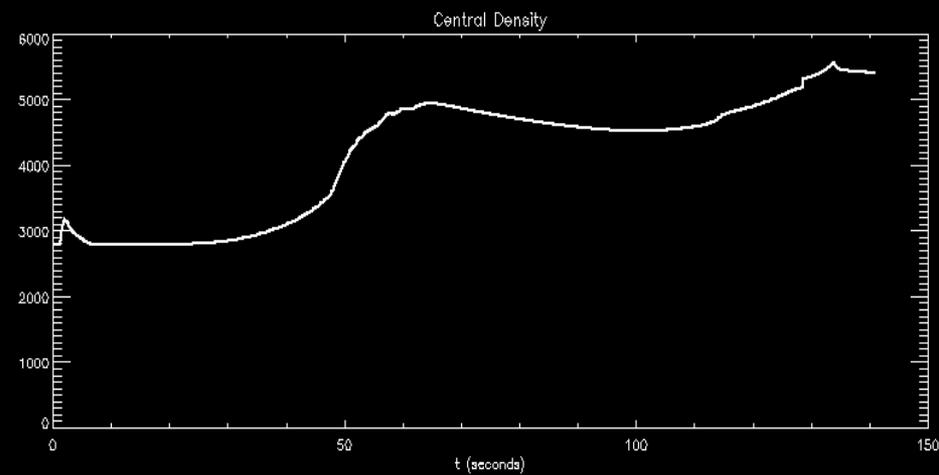
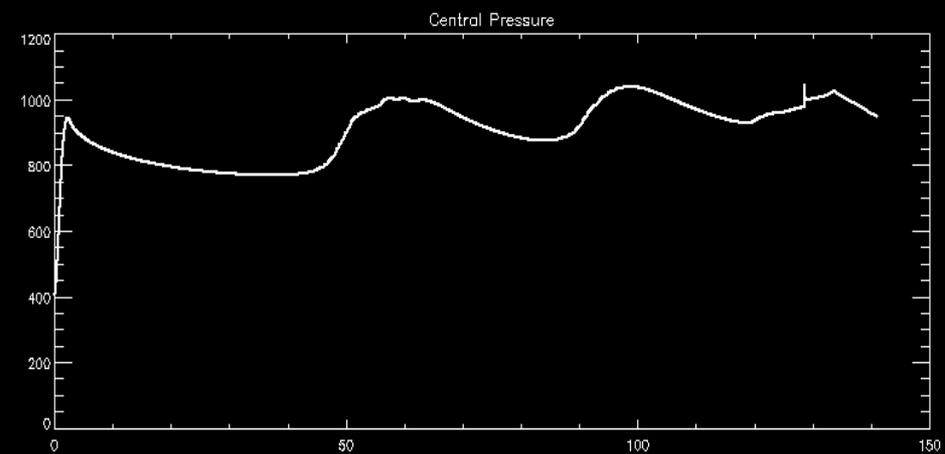
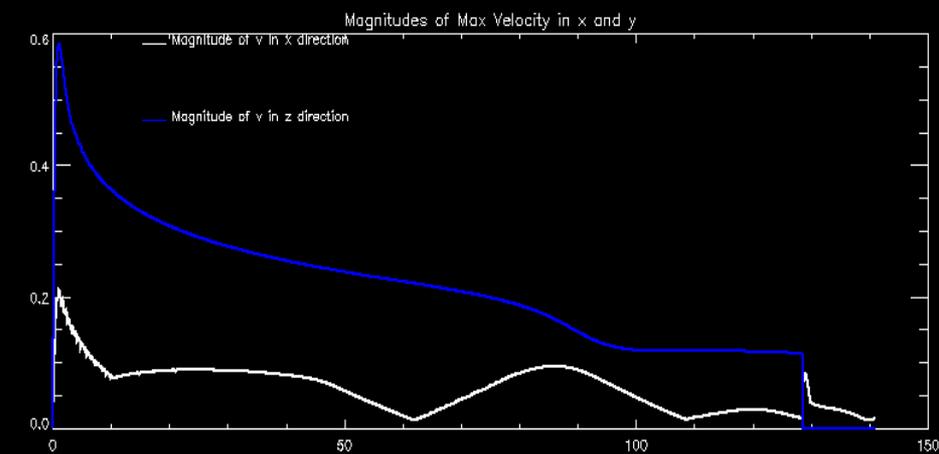
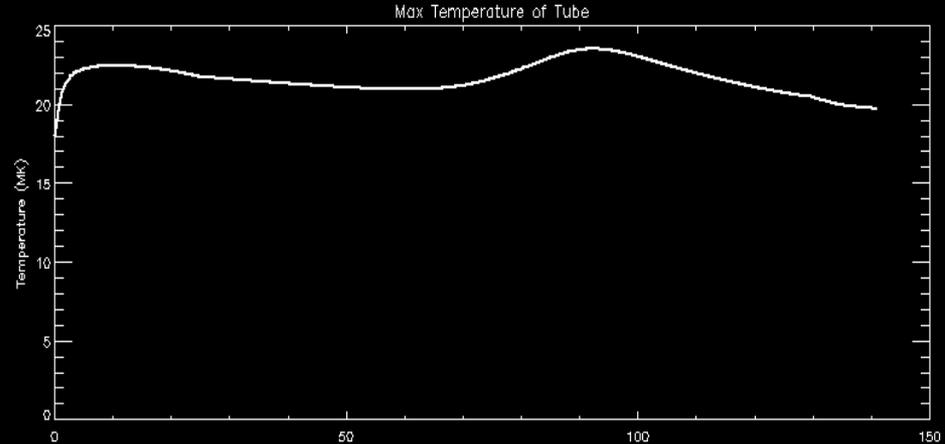
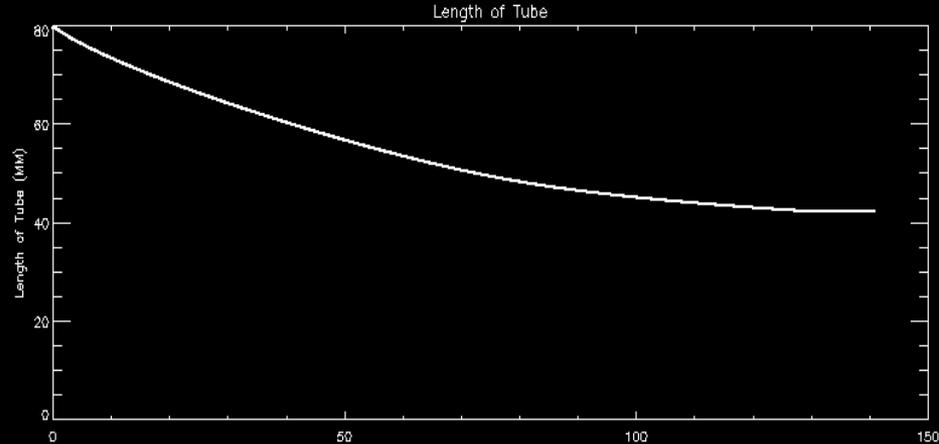
- Contours of 20 MK final temperatures
 - Changed: $T_{\text{max_init}}$ and θ
 - Not-changed: B , init_length , final_length

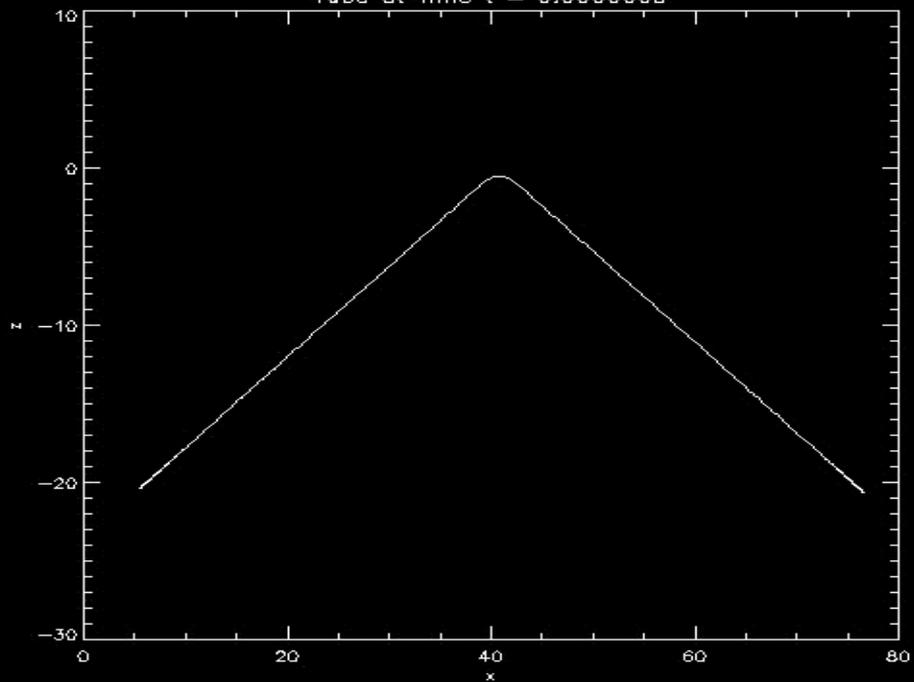
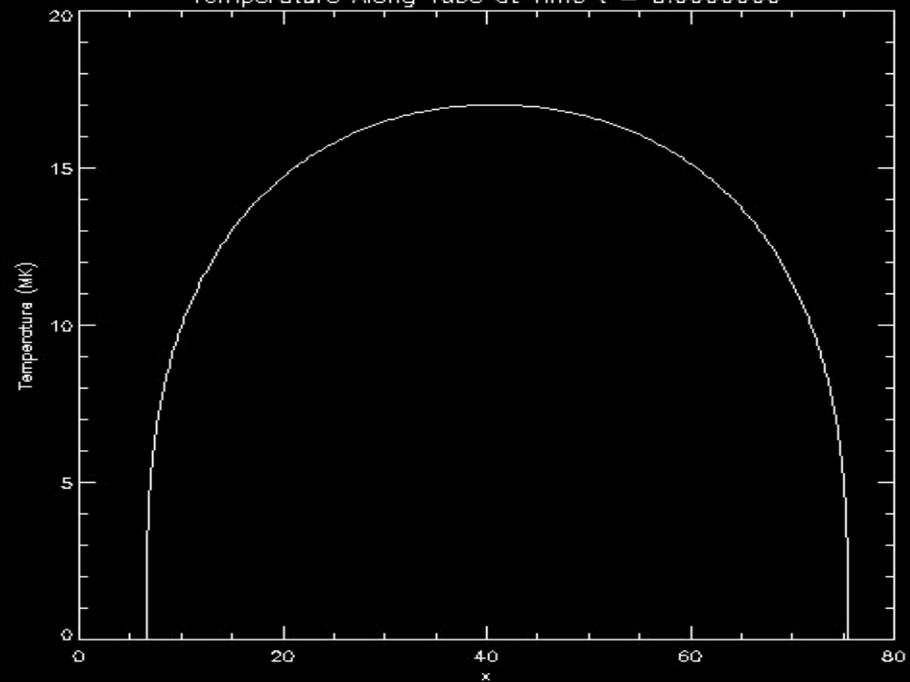
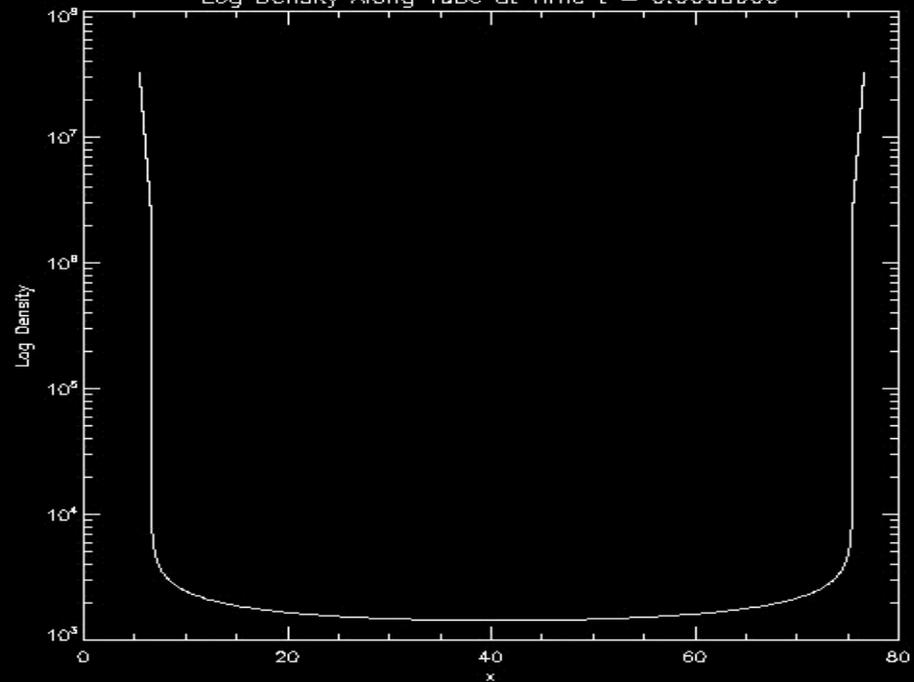
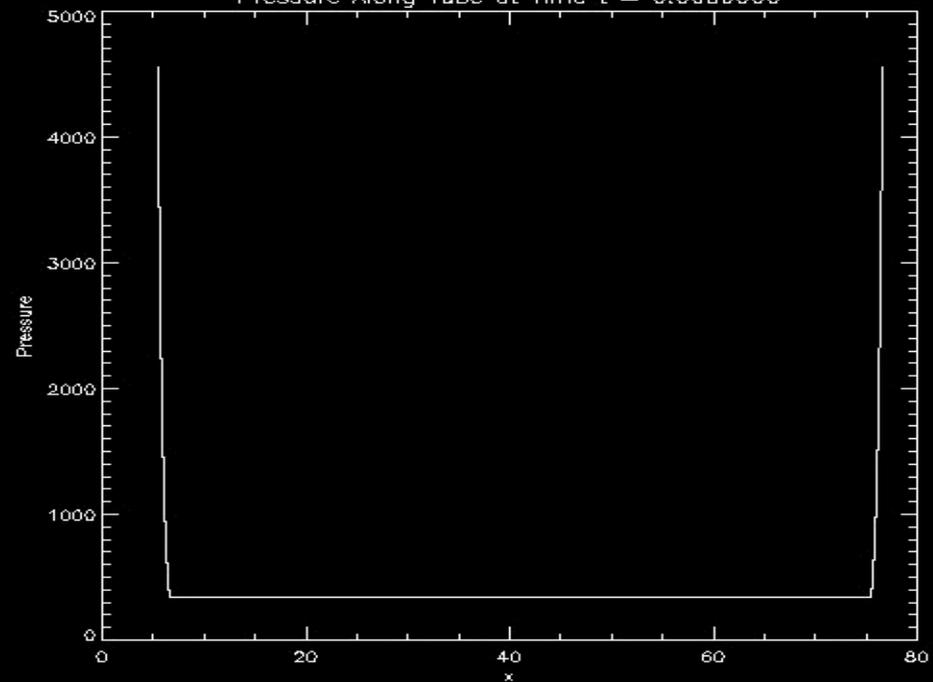


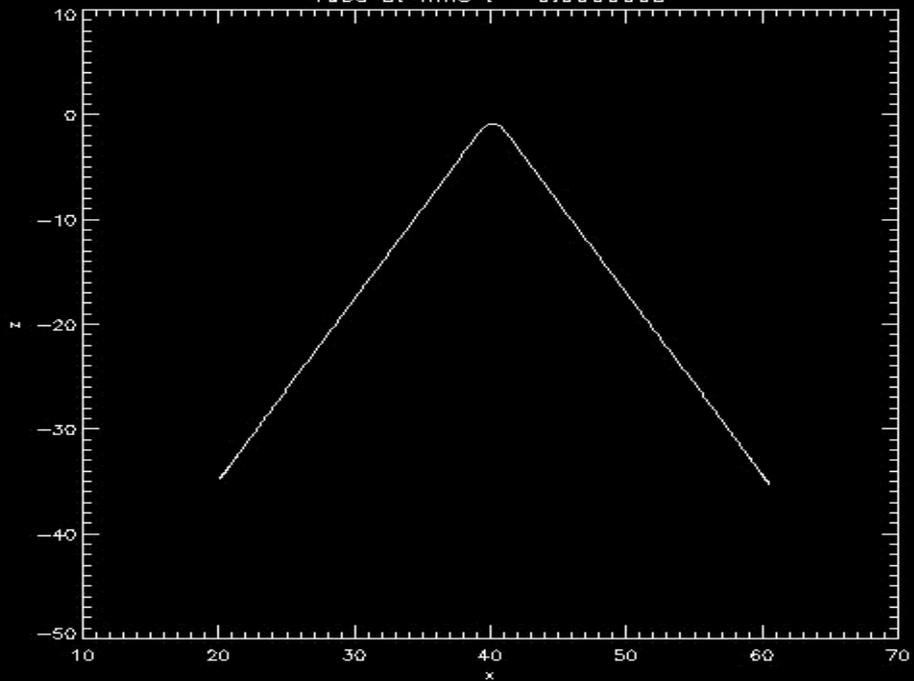
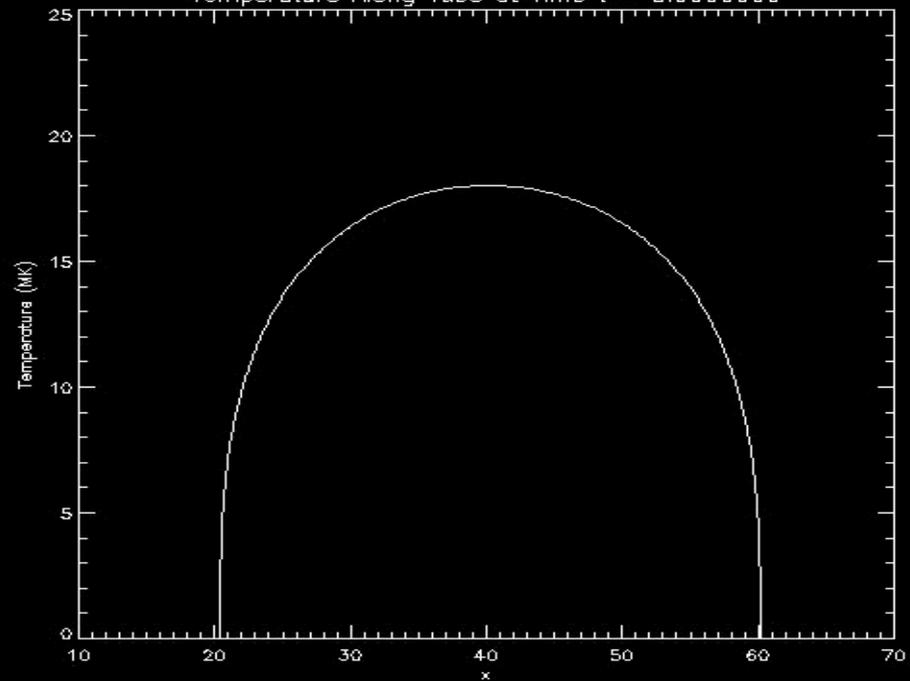
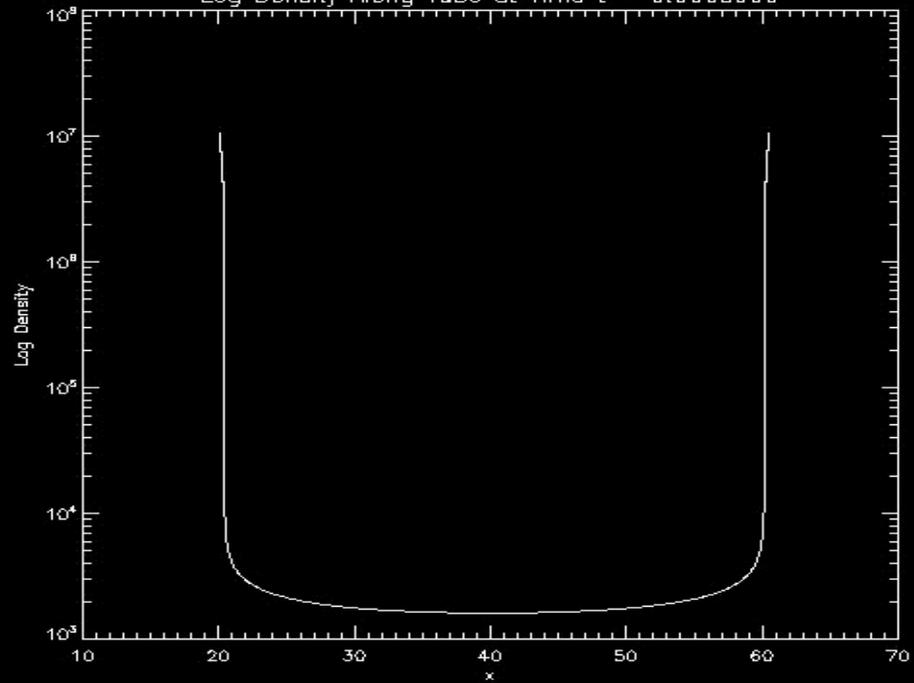
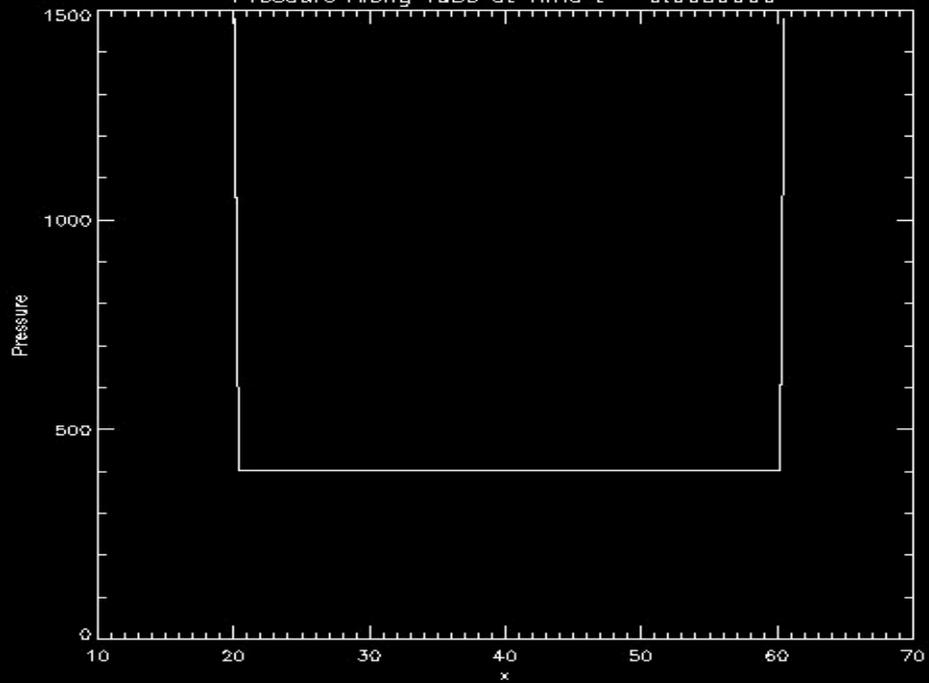
Last 2 Weeks

- Introduction of drag
 - Changes in tube shape, and the evolution of properties





Tube at Time $t = 0.0000000$ Temperature Along Tube at Time $t = 0.0000000$ Log Density Along Tube at Time $t = 0.0000000$ Pressure Along Tube at Time $t = 0.0000000$ 

Tube at Time $t = 0.0000000$ Temperature Along Tube at Time $t = 0.0000000$ Log Density Along Tube at Time $t = 0.0000000$ Pressure Along Tube at Time $t = 0.0000000$ 

Next 2 Weeks

- Contours again!