

Plots

These are the plots used for my project. They are contained at the bottom of my file **convect.py**, but are all commented out.

To 'comment in' one of the plots, locate the plot you want. Add `"""` above and below the lines of code for the plot. It should change colour, and your plot will appear after you run the code.

The plot numbers refer to the location of the plots in the code. I have run through all of the plots, and they seem to work fine, with one exception.

Figure 11 This figure will be the most difficult to reproduce. In the code I have (hopefully) attached, the loop in Part 2 (lines 349-466) calculates cells motion only for 1 position, and 4 temperatures.

To change this, lines 360 and 361 should be changed.

Line 360 is the cell positions. Perhaps replace that with `jj=arange(0.7, 0.9, 0.001)`.

Line 361 is the cell temperatures (or factors of solar temperatures). Perhaps replace with `kk= arange(1, 2, 0.001)`

Be warned: the code will take around an hour to run, if you do this. It is not very efficient as it is.

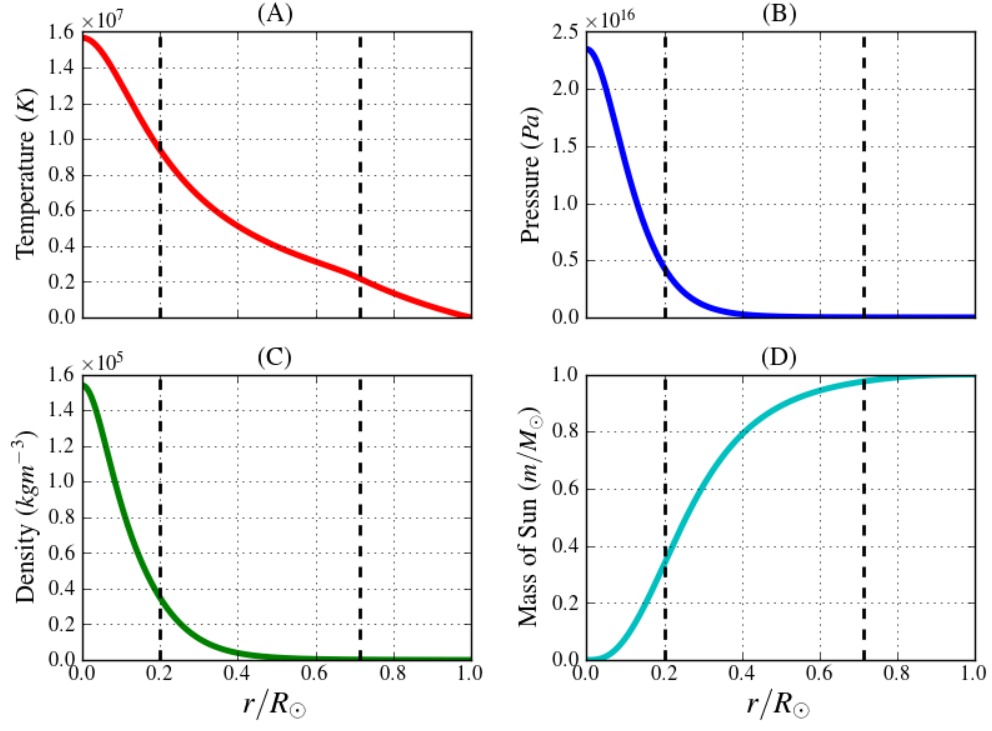


Figure 1: Plot # 1

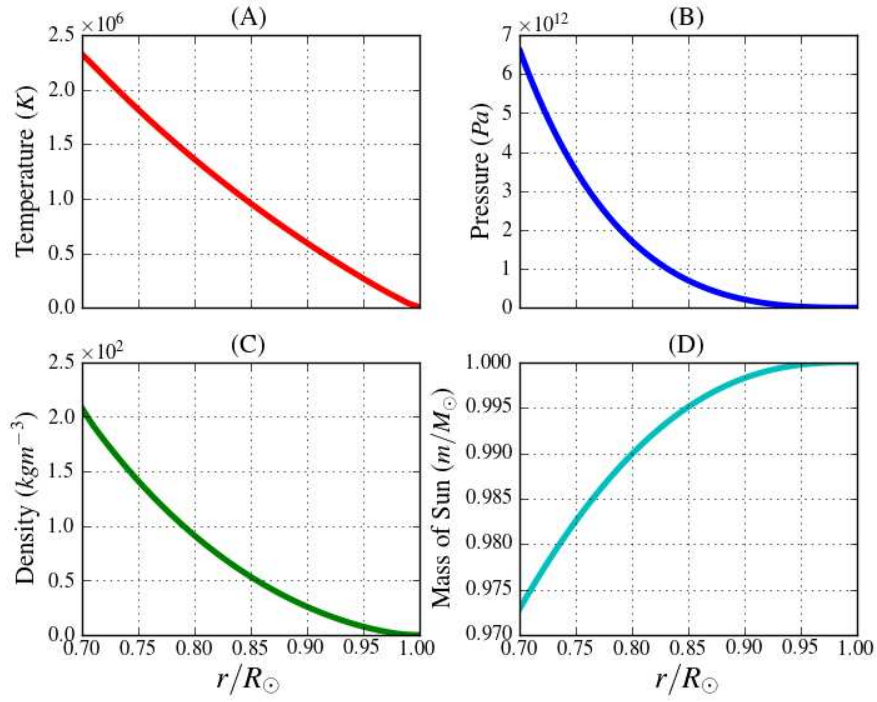


Figure 2: Plot # 2

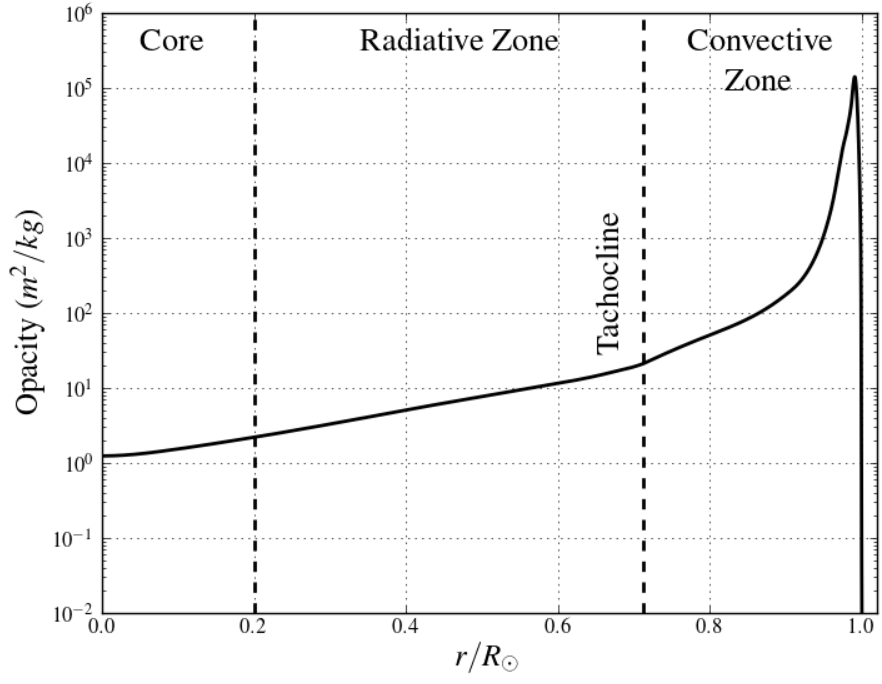


Figure 3: Plot # 3.

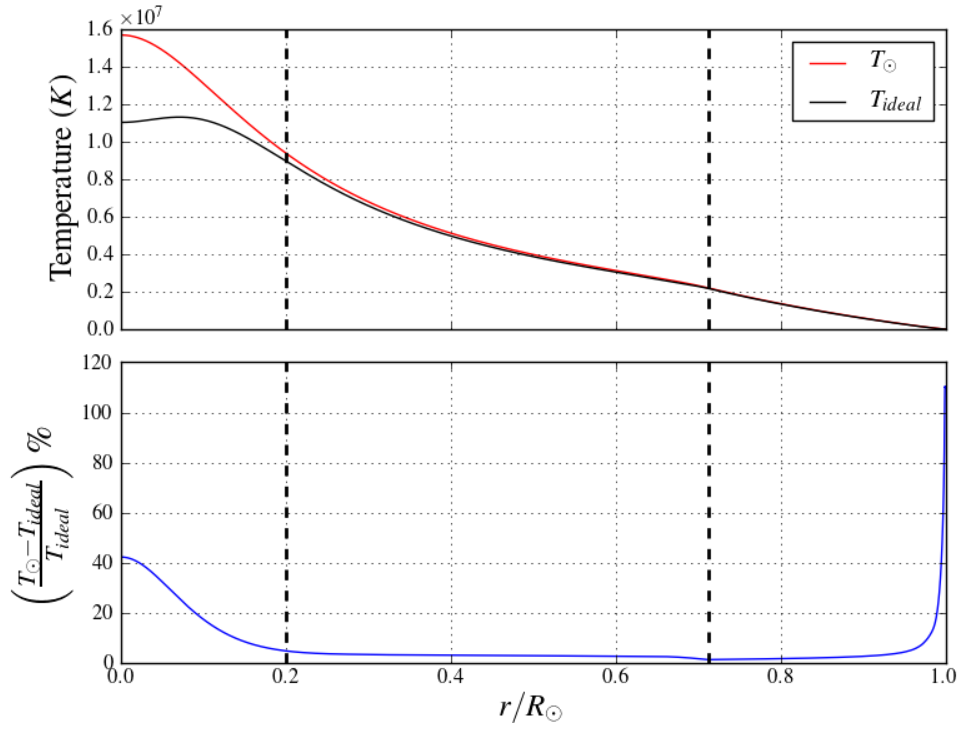


Figure 4: Plot # 4

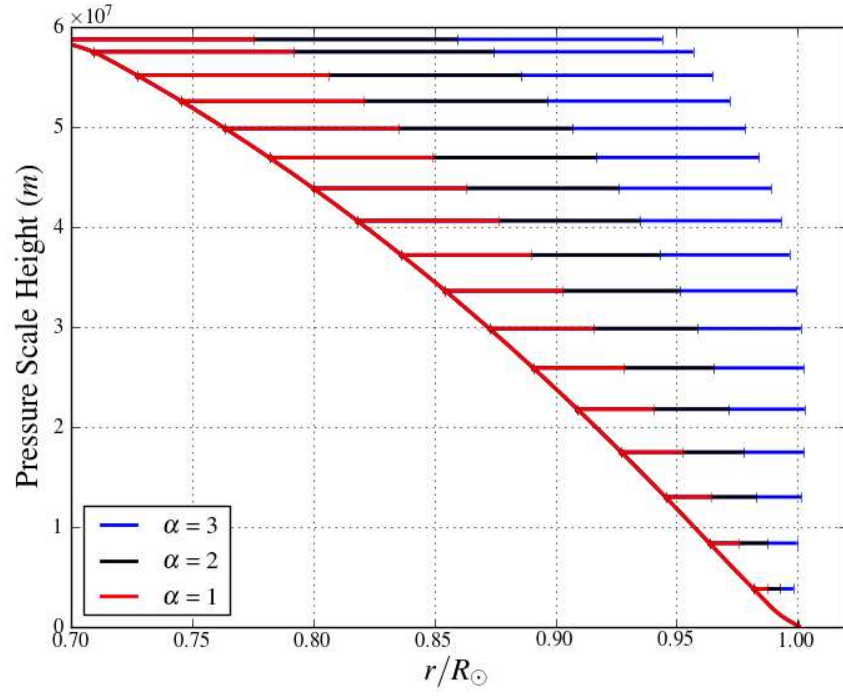


Figure 5: Plot # 5

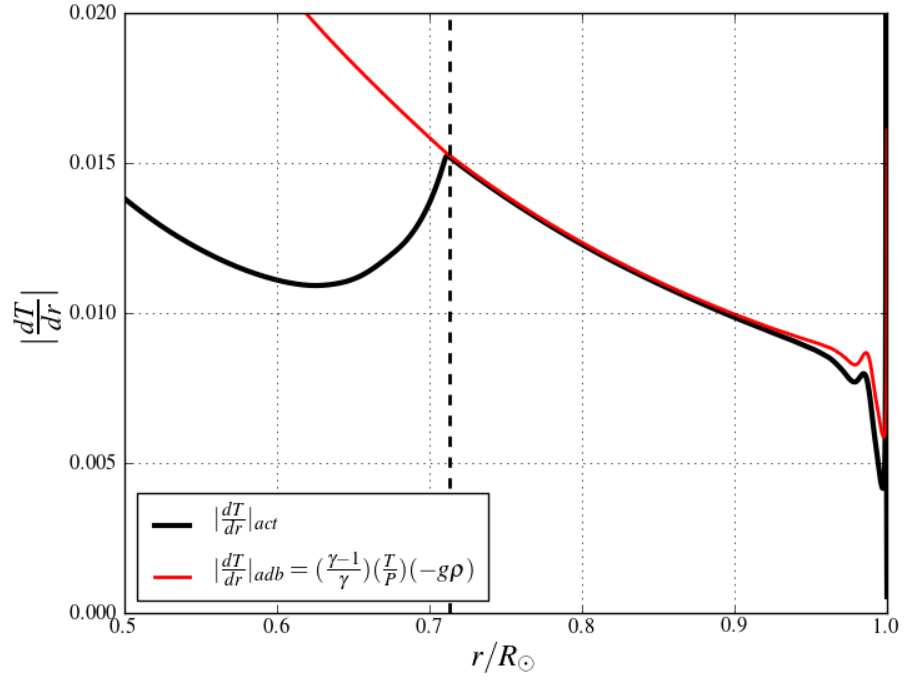


Figure 6: Plot # 6

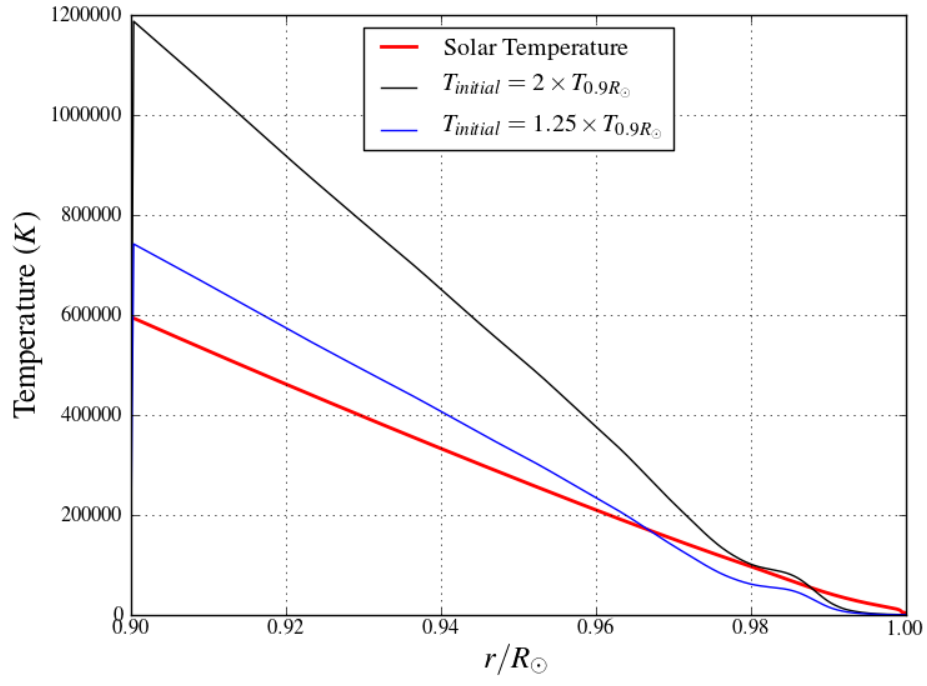


Figure 7: Plot # 7

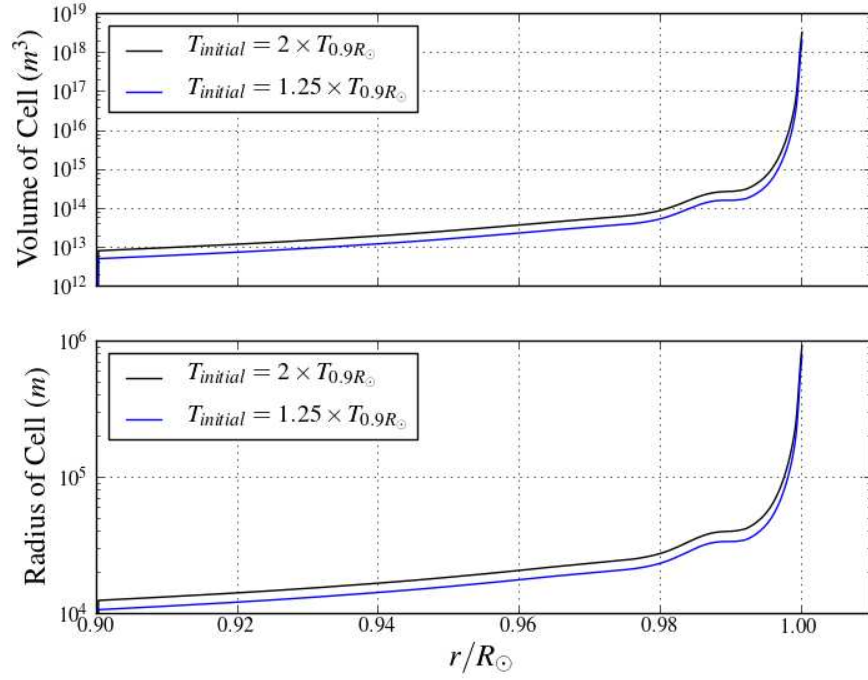


Figure 8: Plot # 8

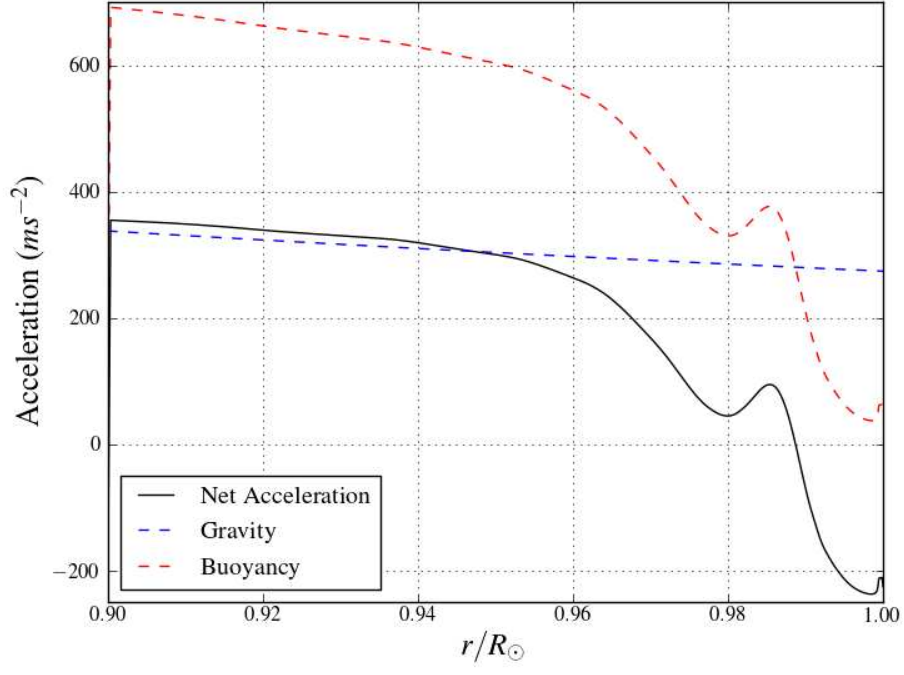


Figure 9: Plot # 11

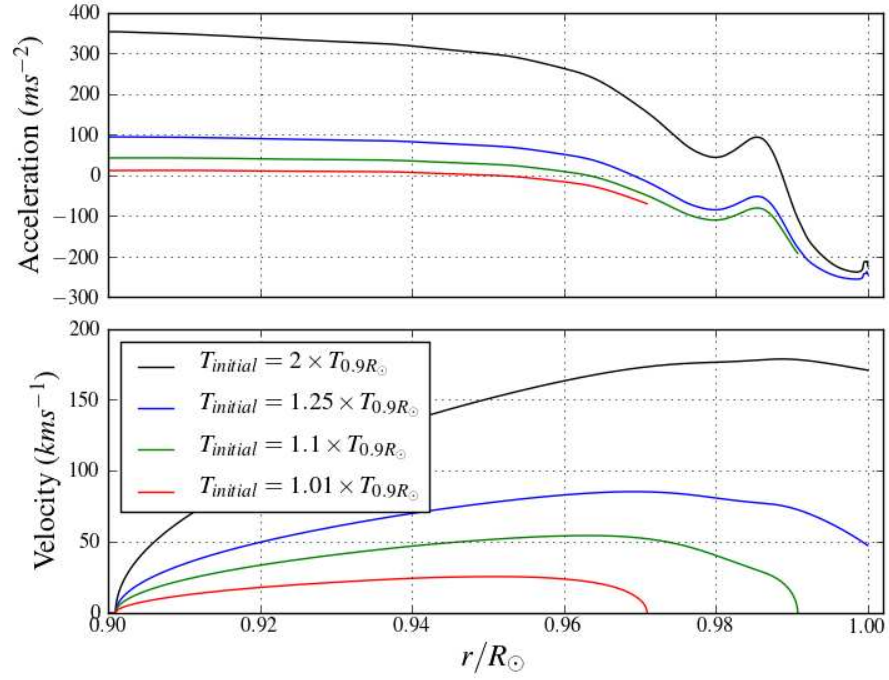


Figure 10: Plot # 10

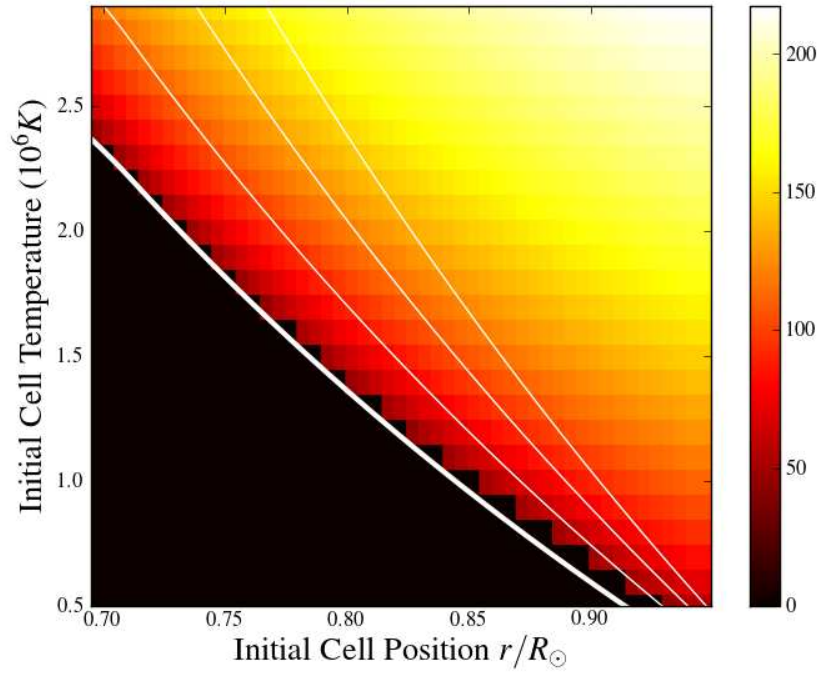


Figure 11: Plot #12. Getting this plot is problematic. See note at start.

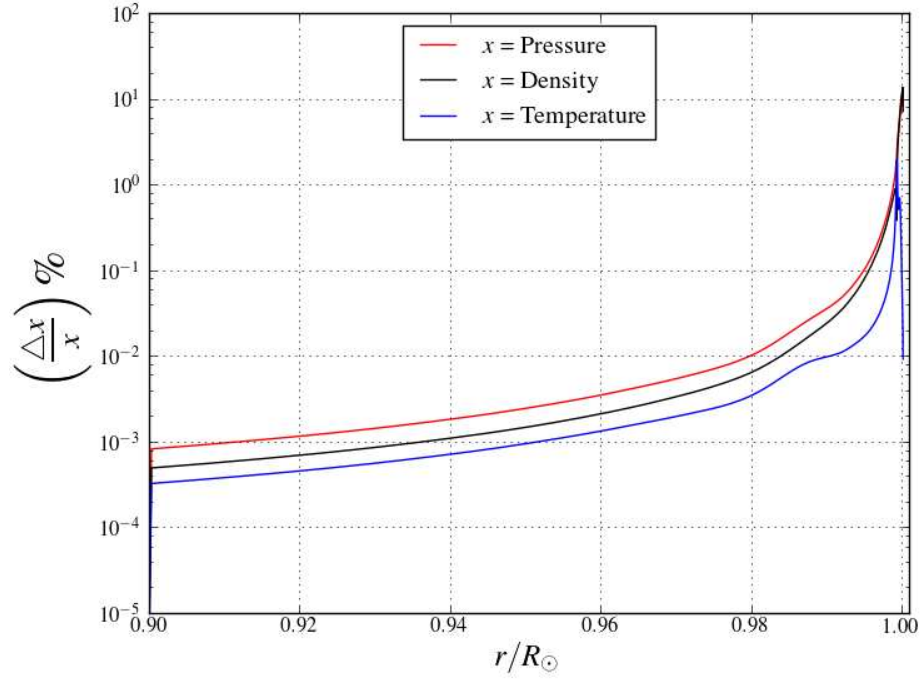


Figure 12: Plot # 9