ISSIAtomicData/phase2_20161006/03_MHD

- mhd2ints: Reads in a PLUTO snapshot, computes Fe XIII intensities for each slice in z, sums the results along z to create an integrated intensity. A small region is selected and the peak and mean intensities are determined. Some nuances
  - The emissivities computed 01_chianti_errors need some 'extra' factors (e.g., elemental abundance, ionization fraction) to be useful for comparison with observations in absolute units. They are added in here.

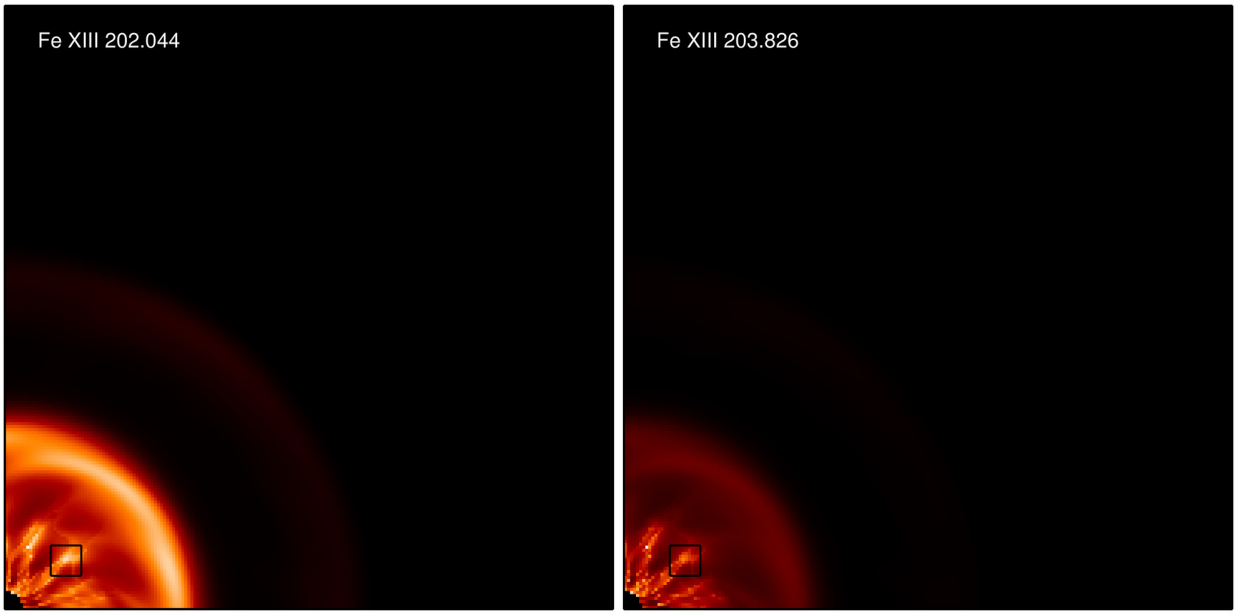

Figure 1: The integrated (in z) intensities in two Fe XIII lines of interest.

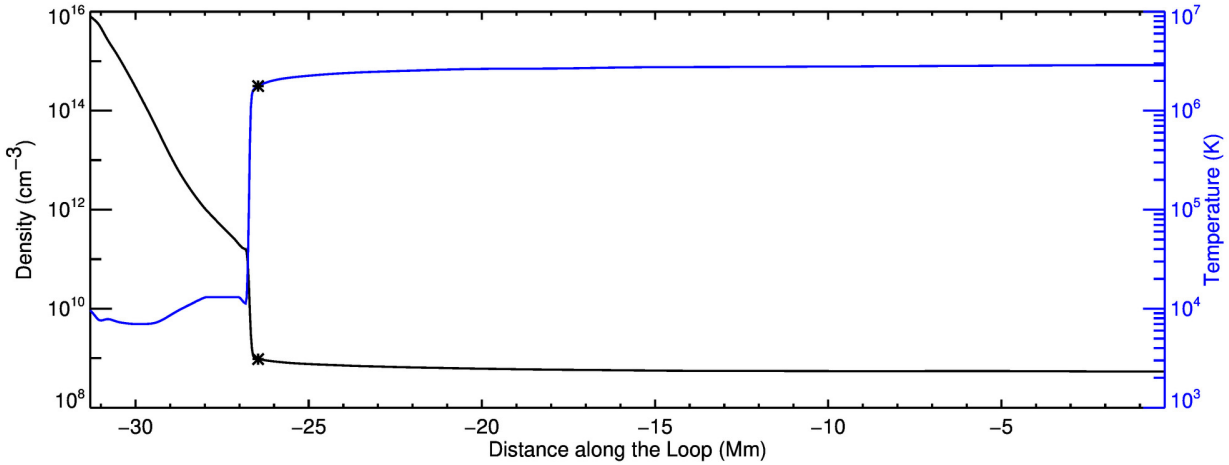

Figure 2: The temperature and density along z for the peak intensity in Fe XIII 203.826.

The peak and mean Fe XIII 203.826 intensities for the small field of view are

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peak =    109.1   /   141.0   =    0.77
mean =     59.7   /    95.3   =    0.63
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- To do: Compute intensities for all of the Fe XIII emission lines of interest. Only the 202 and 204 lines have been calculated at present.