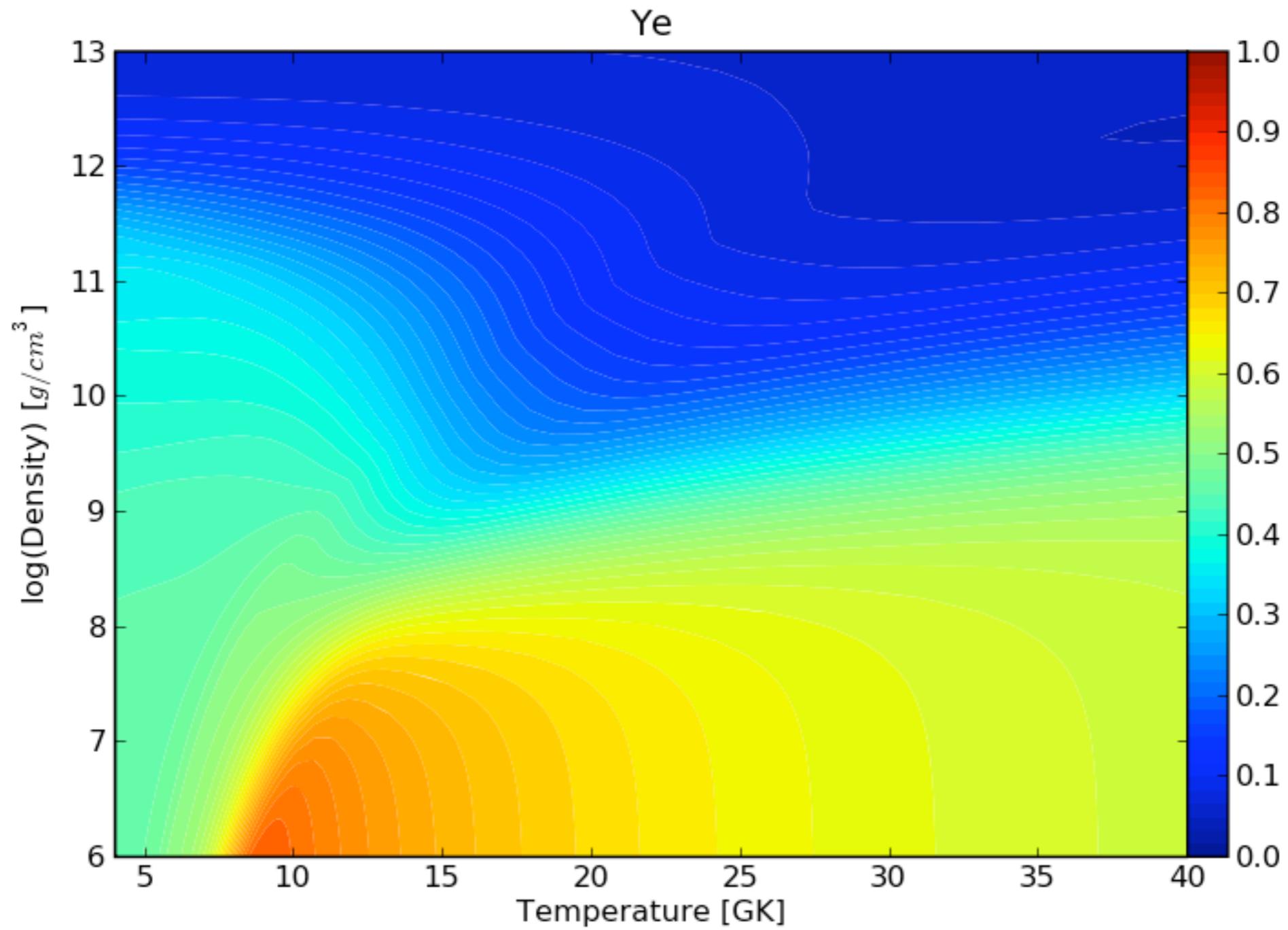
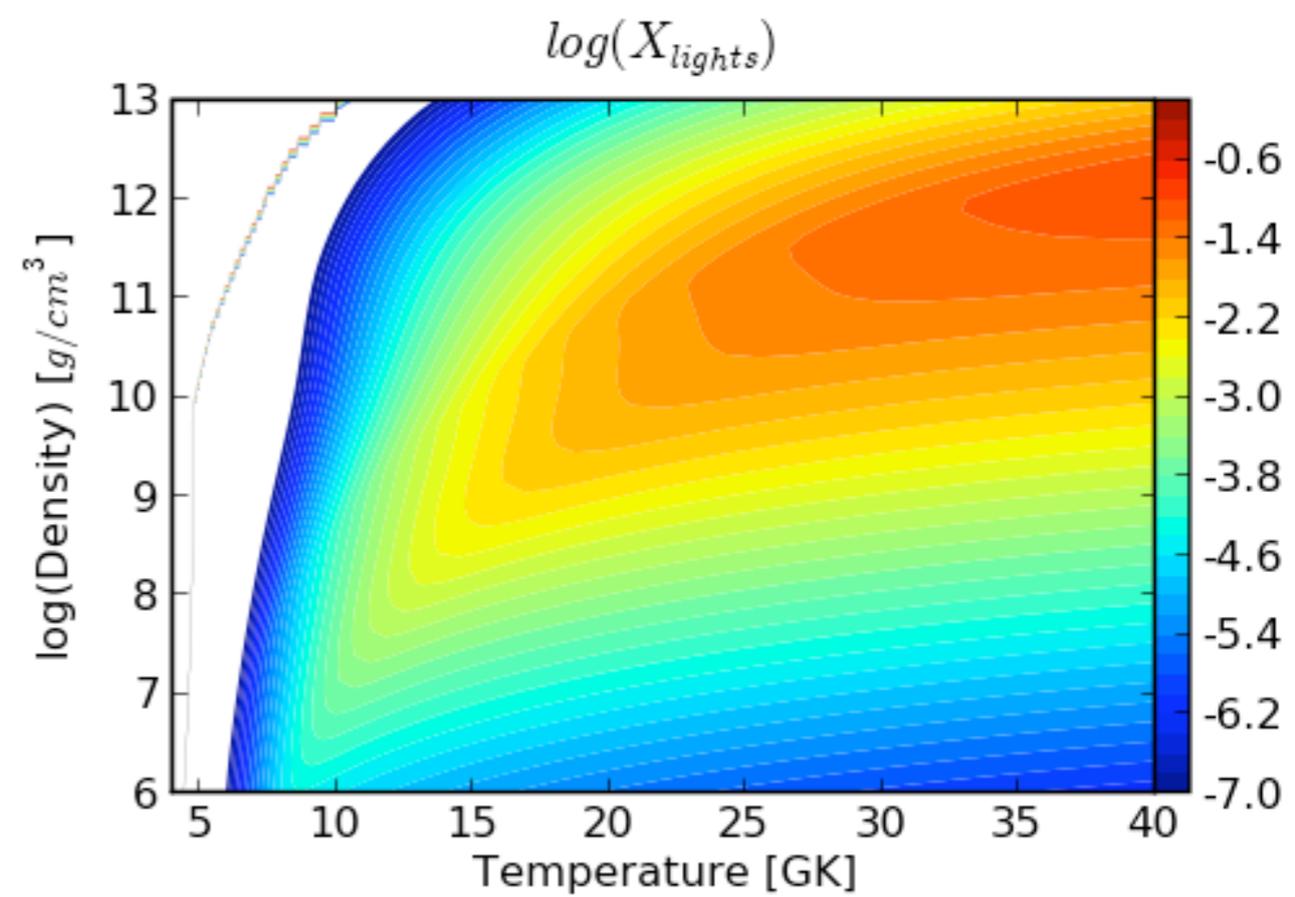
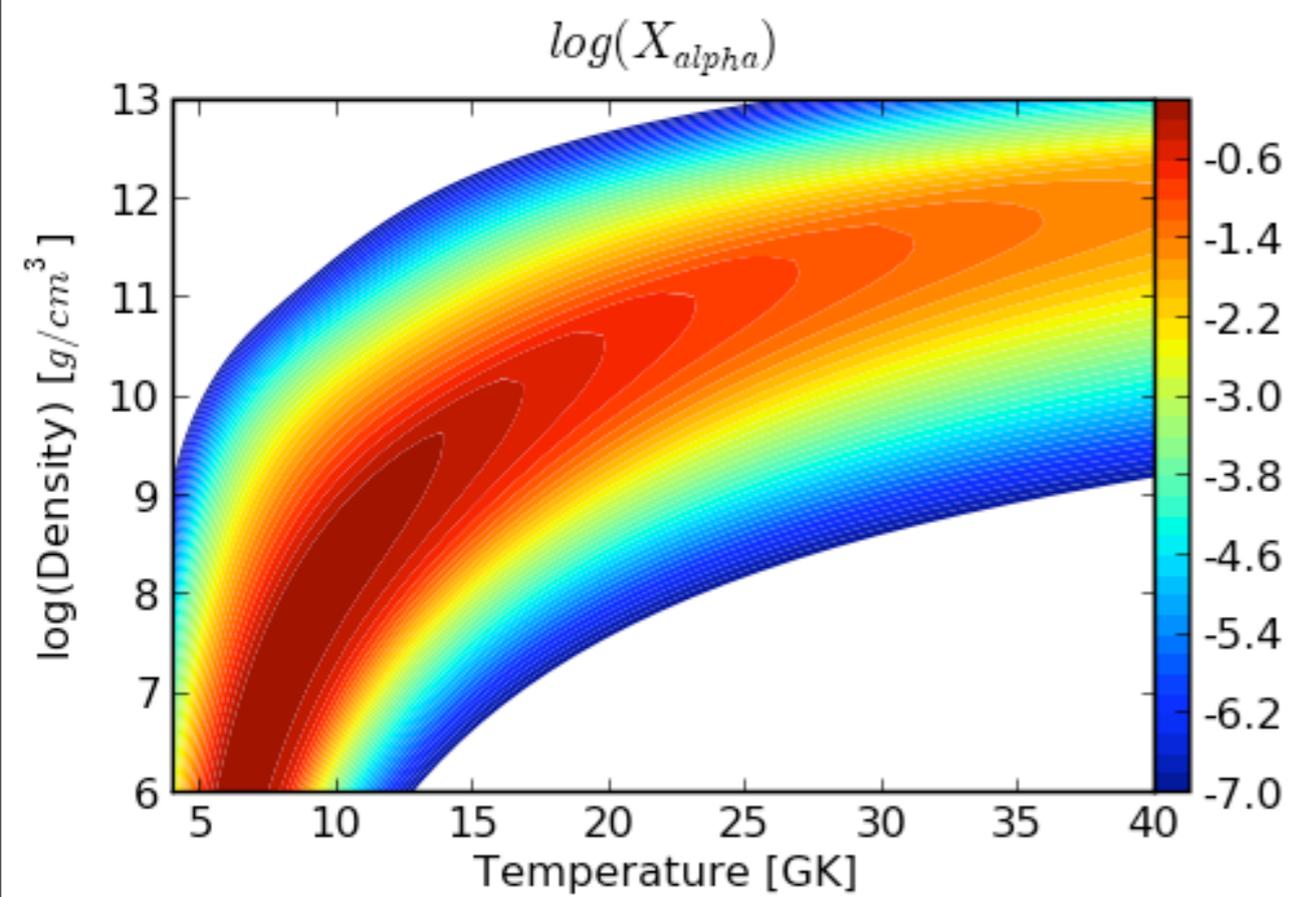
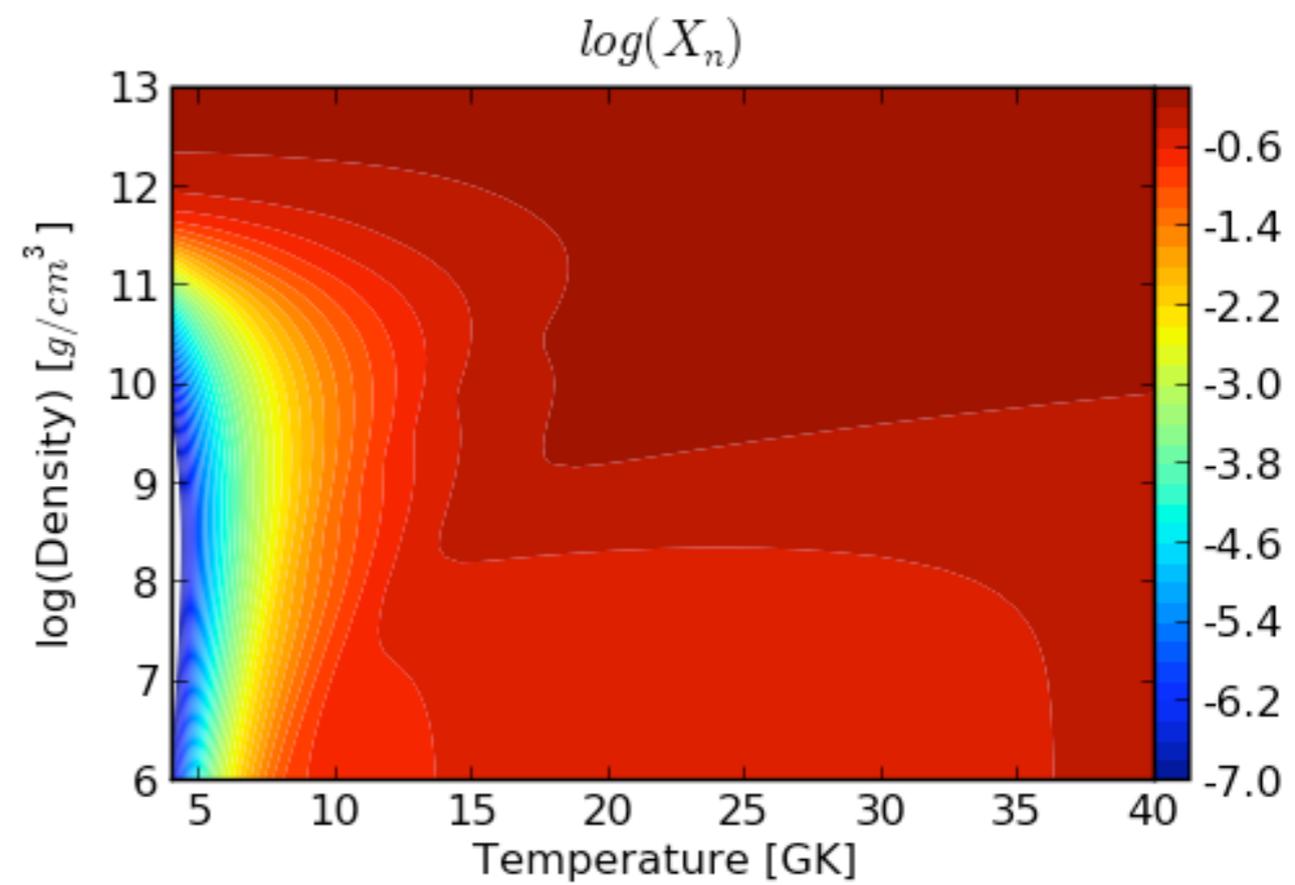
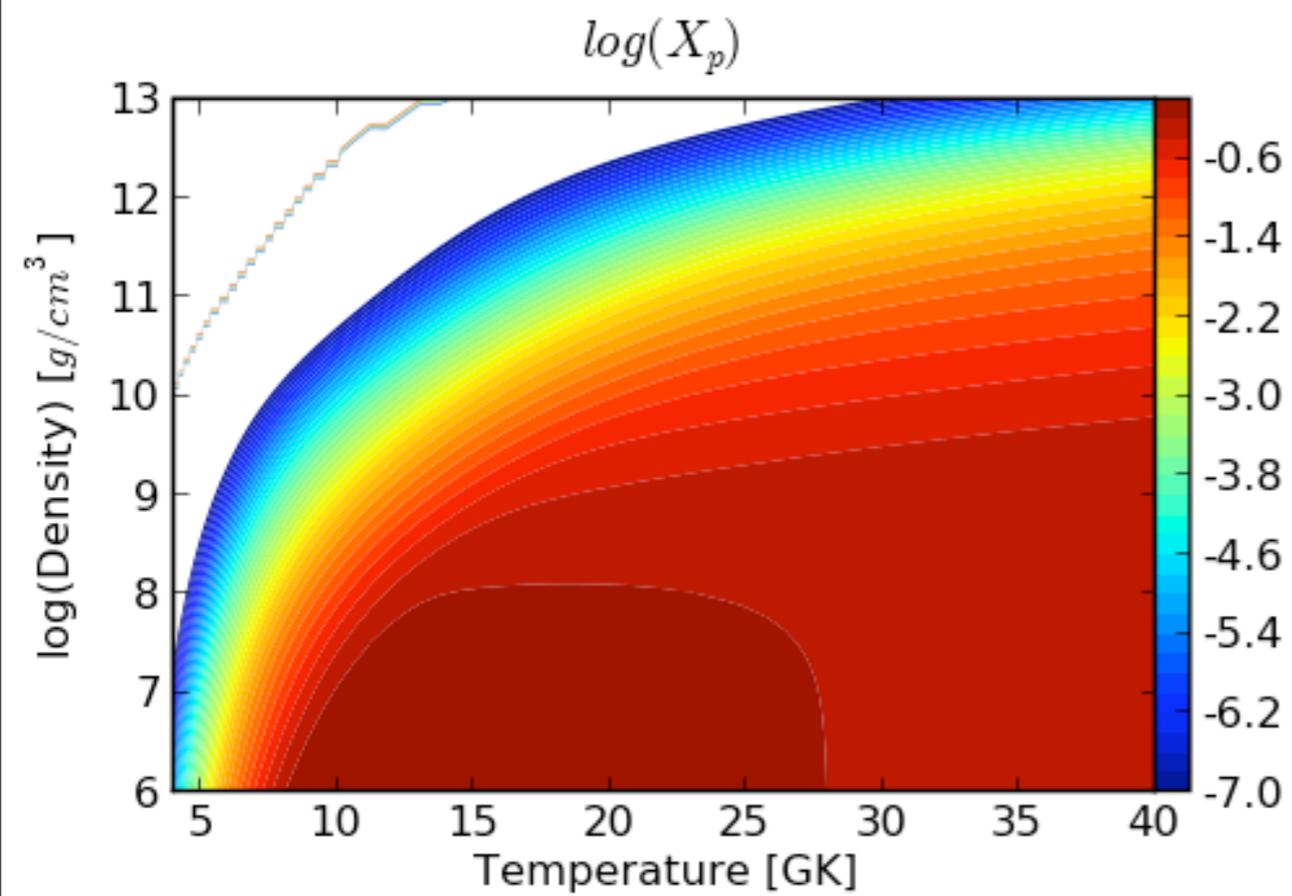
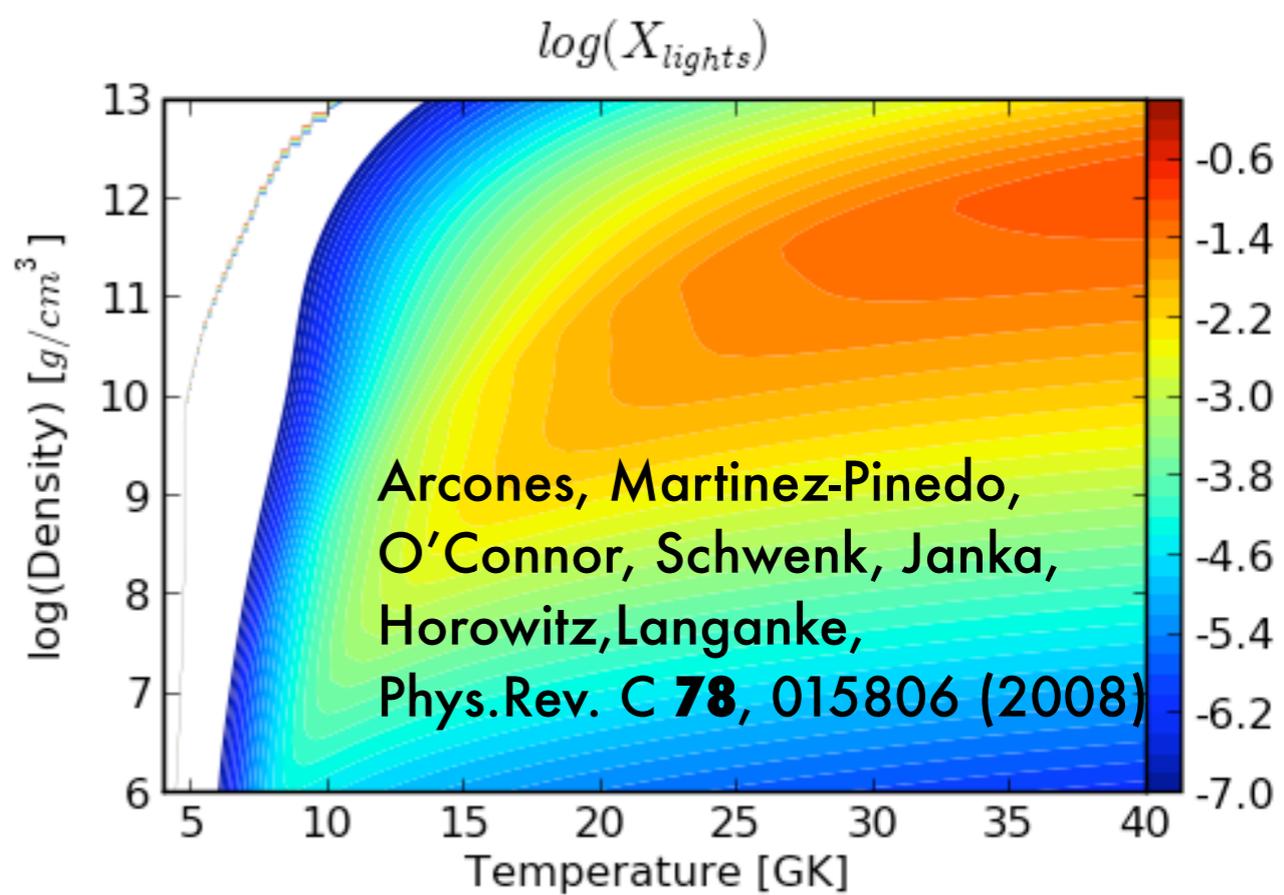
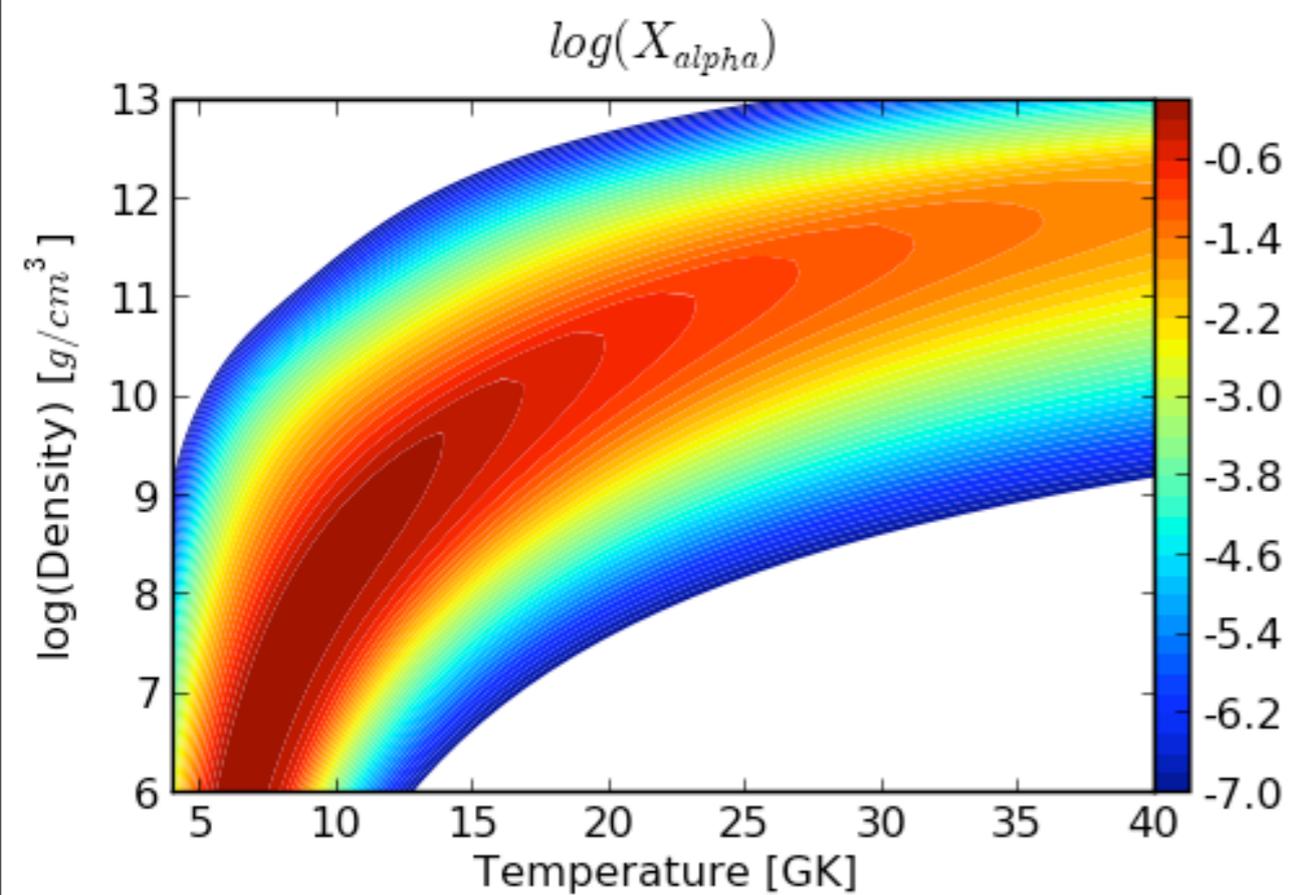
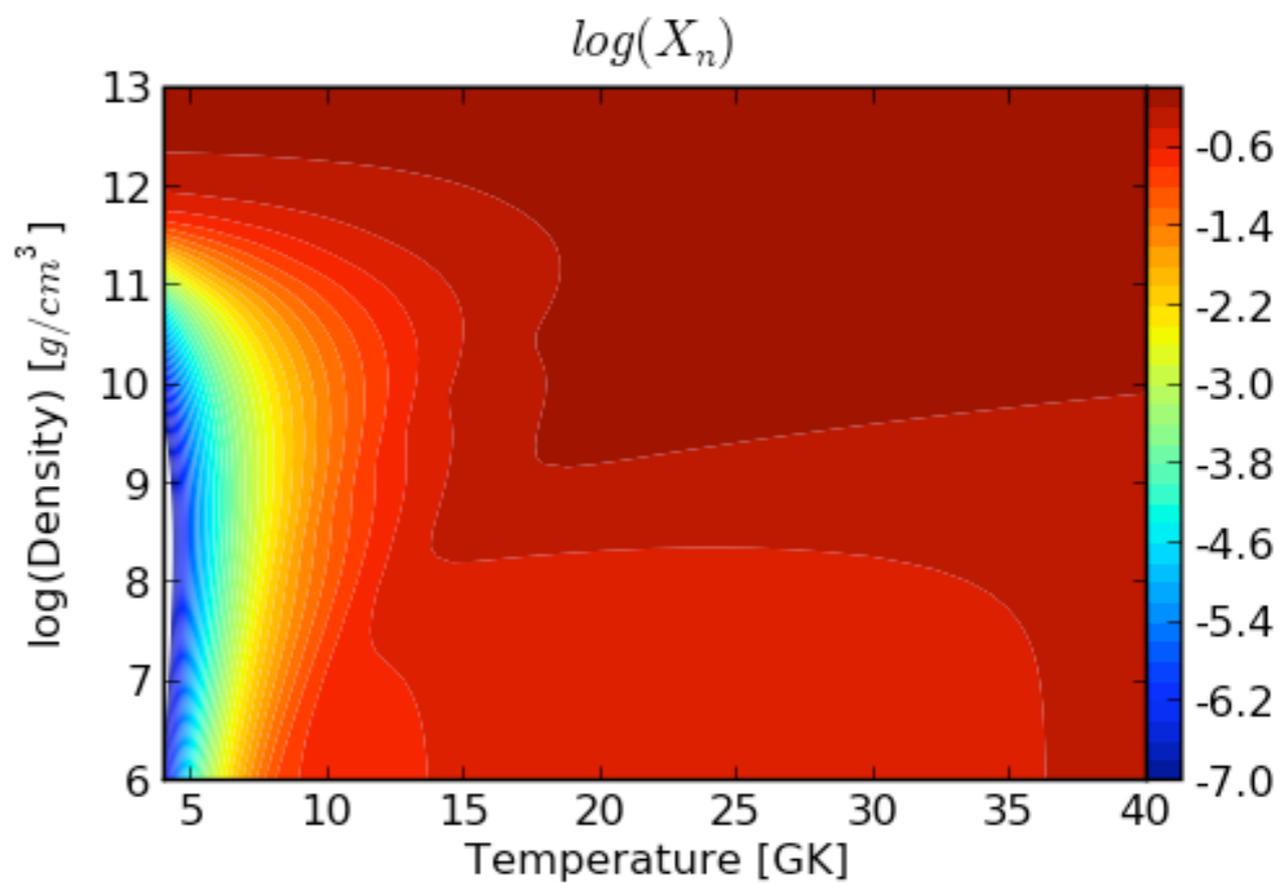
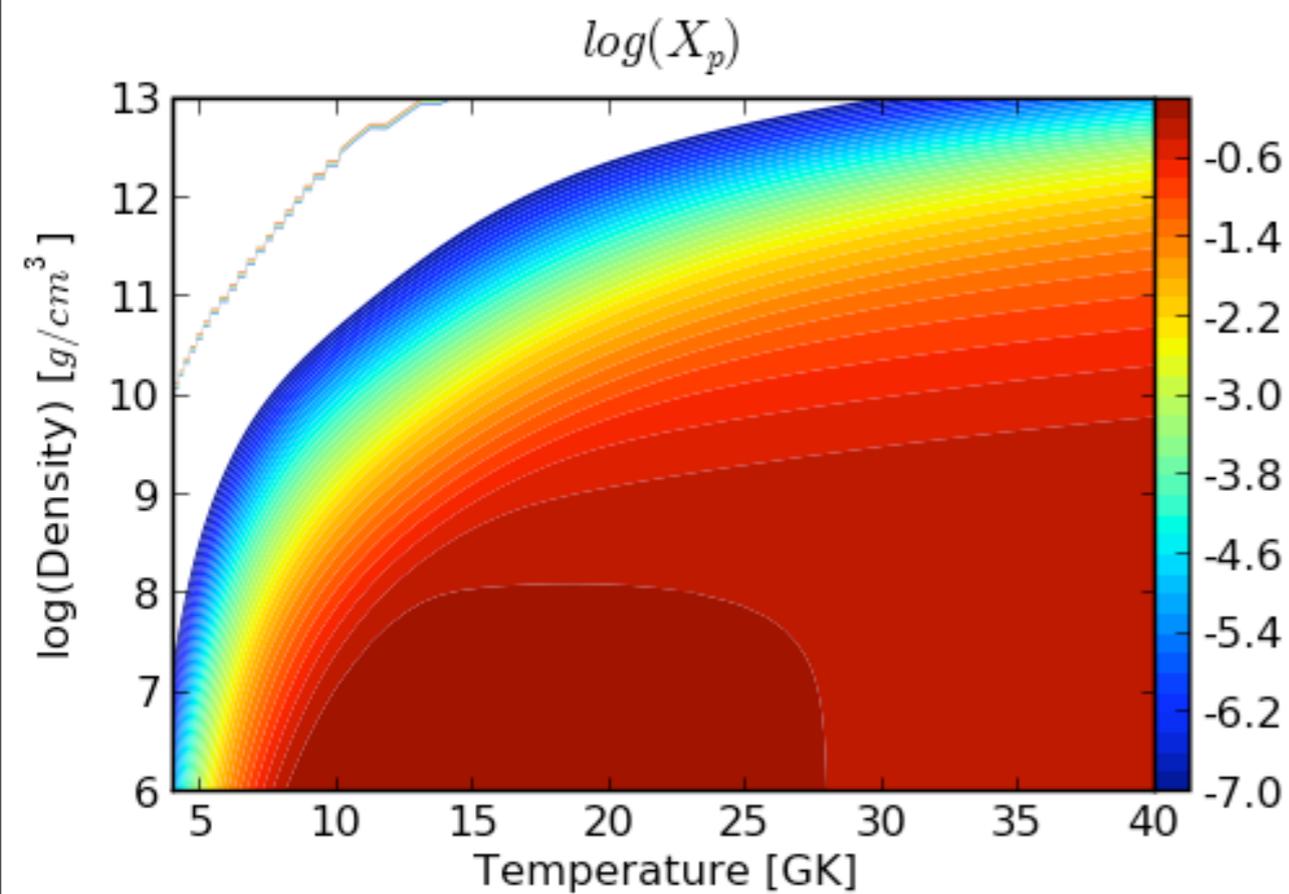


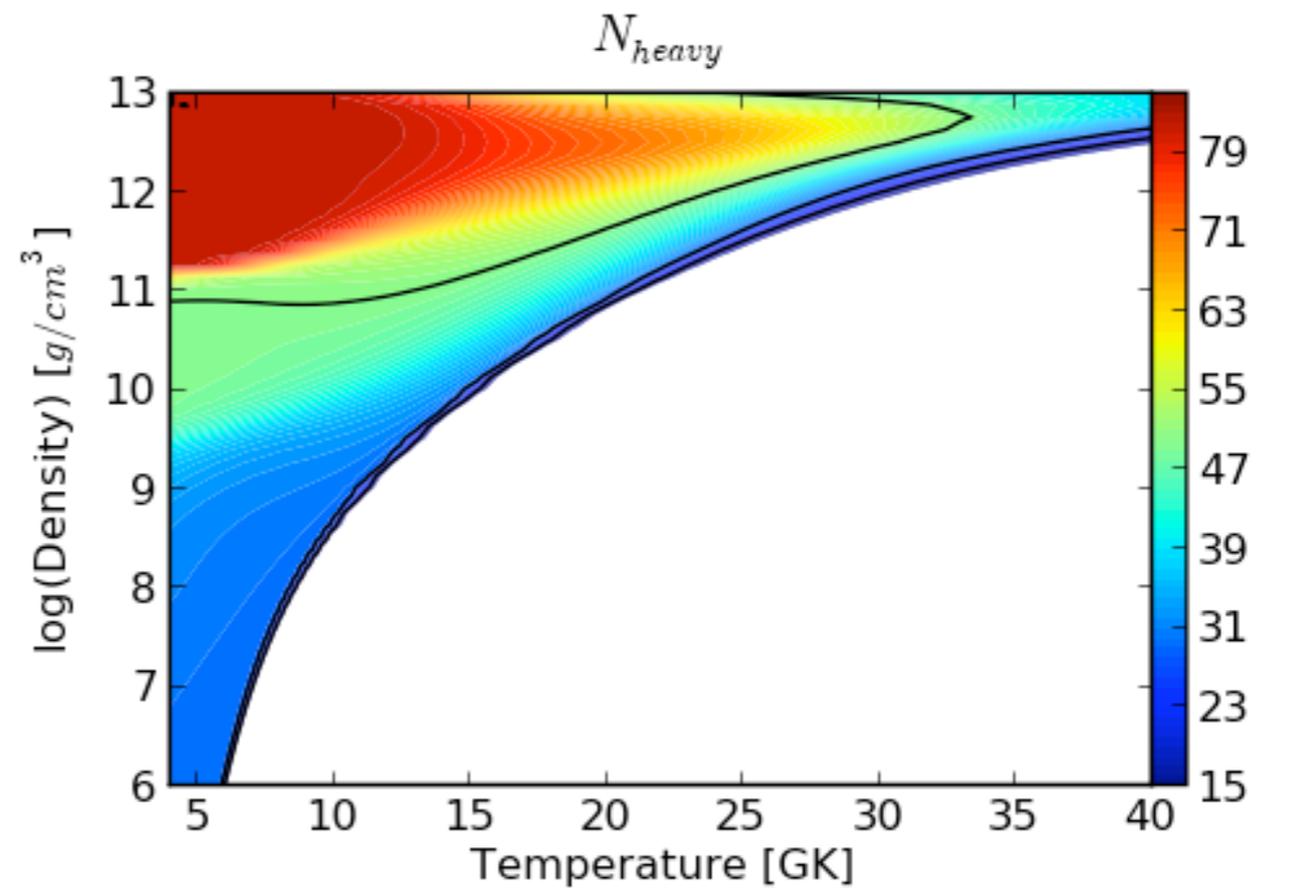
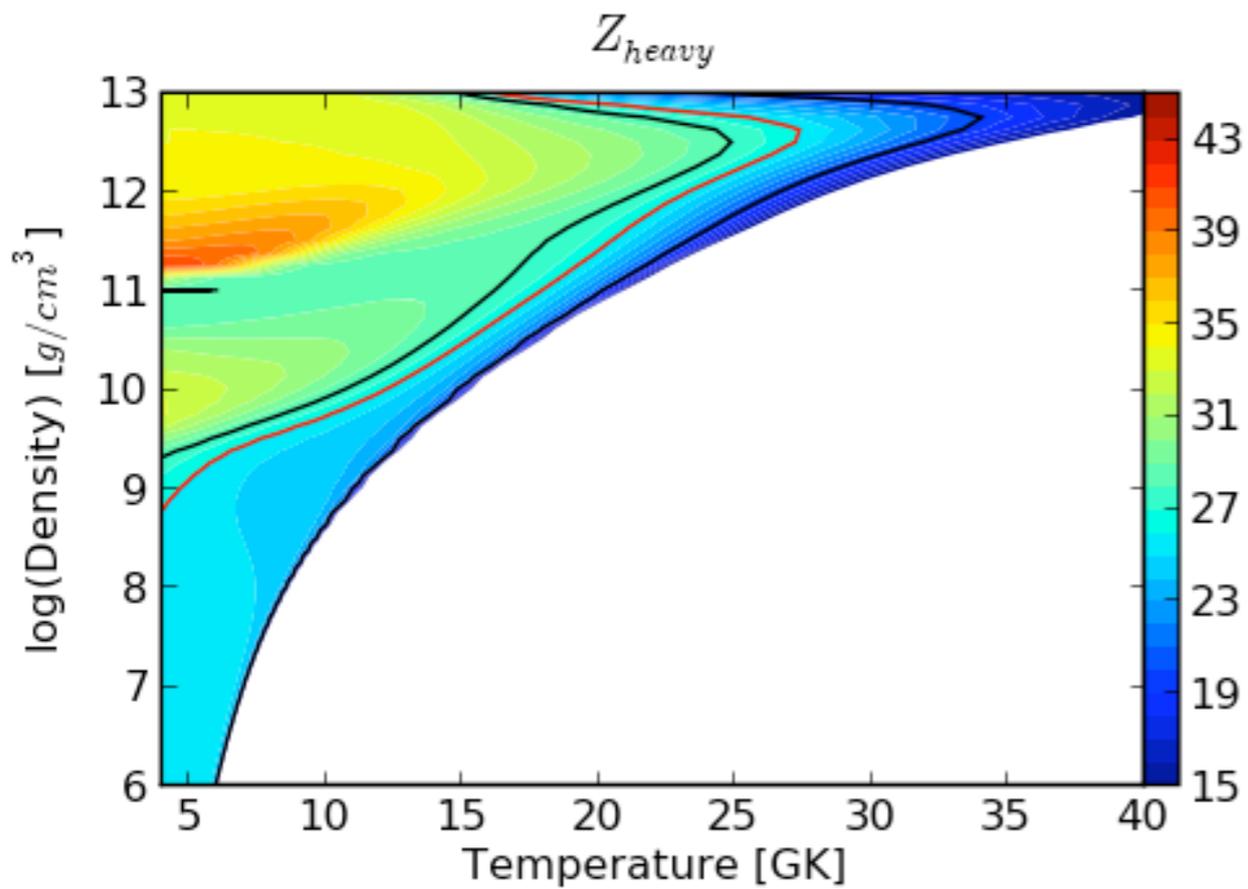
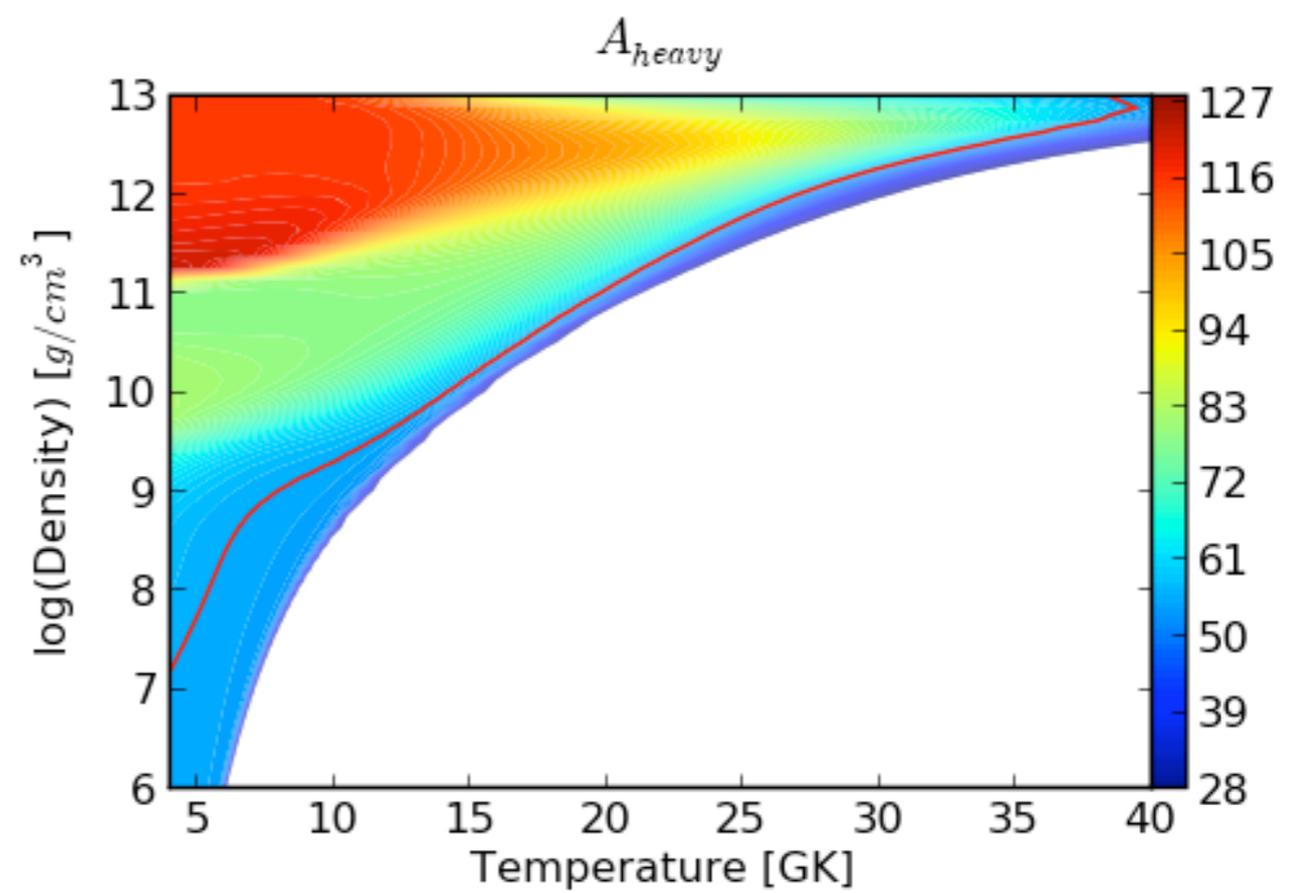
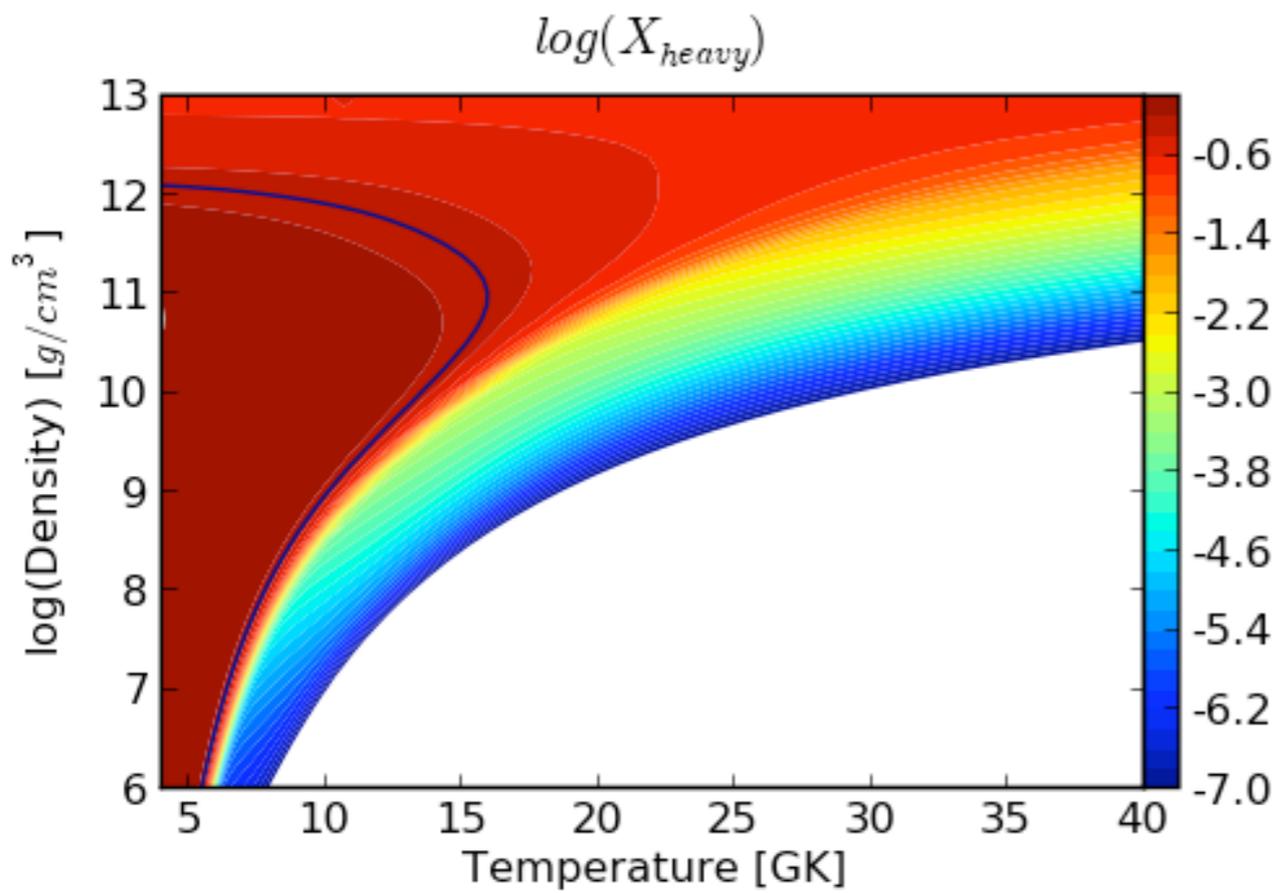
# NSE and beta equilibrium



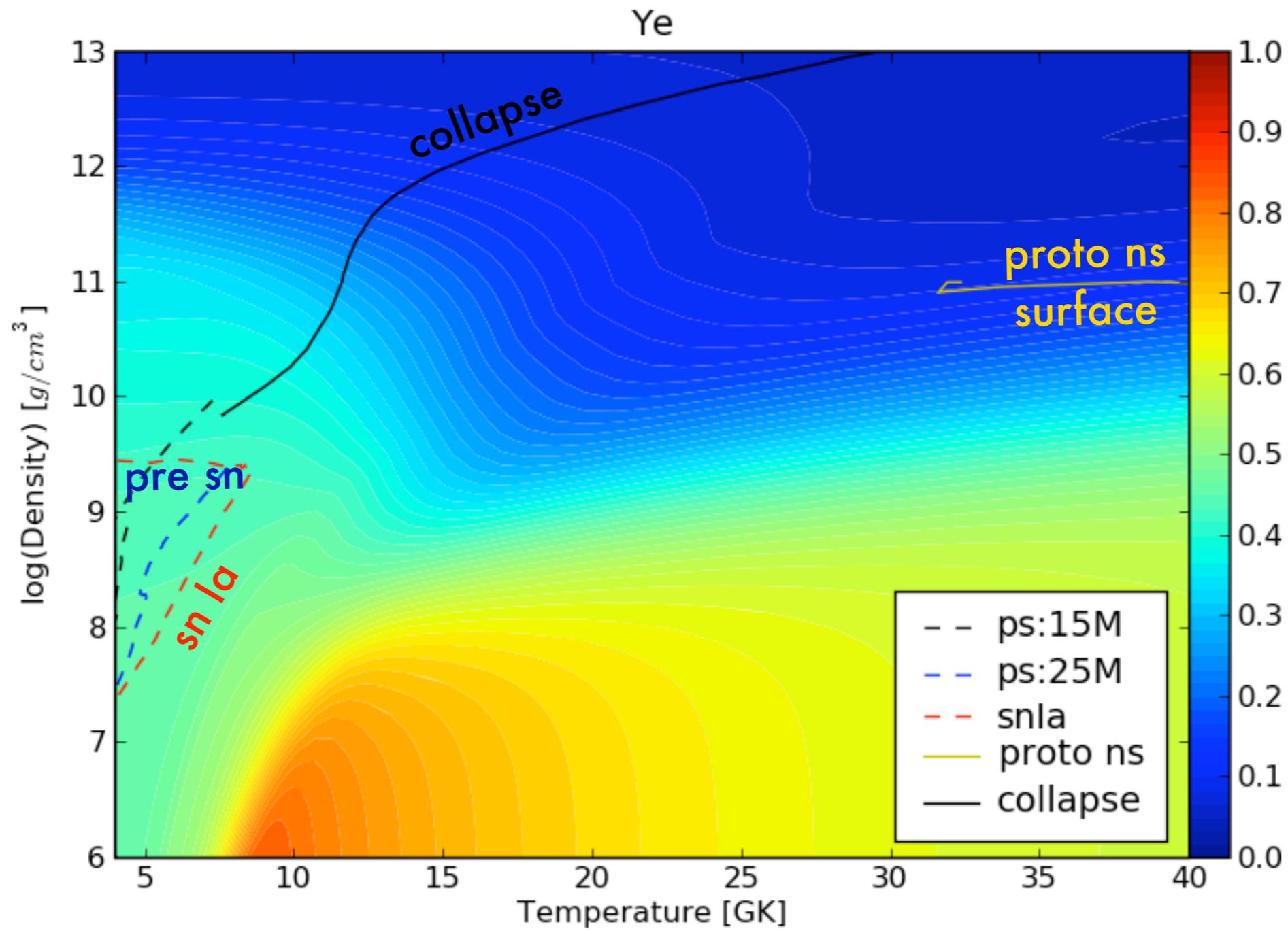
Arcones, Martinez-Pinedo, Woosley (in prep)

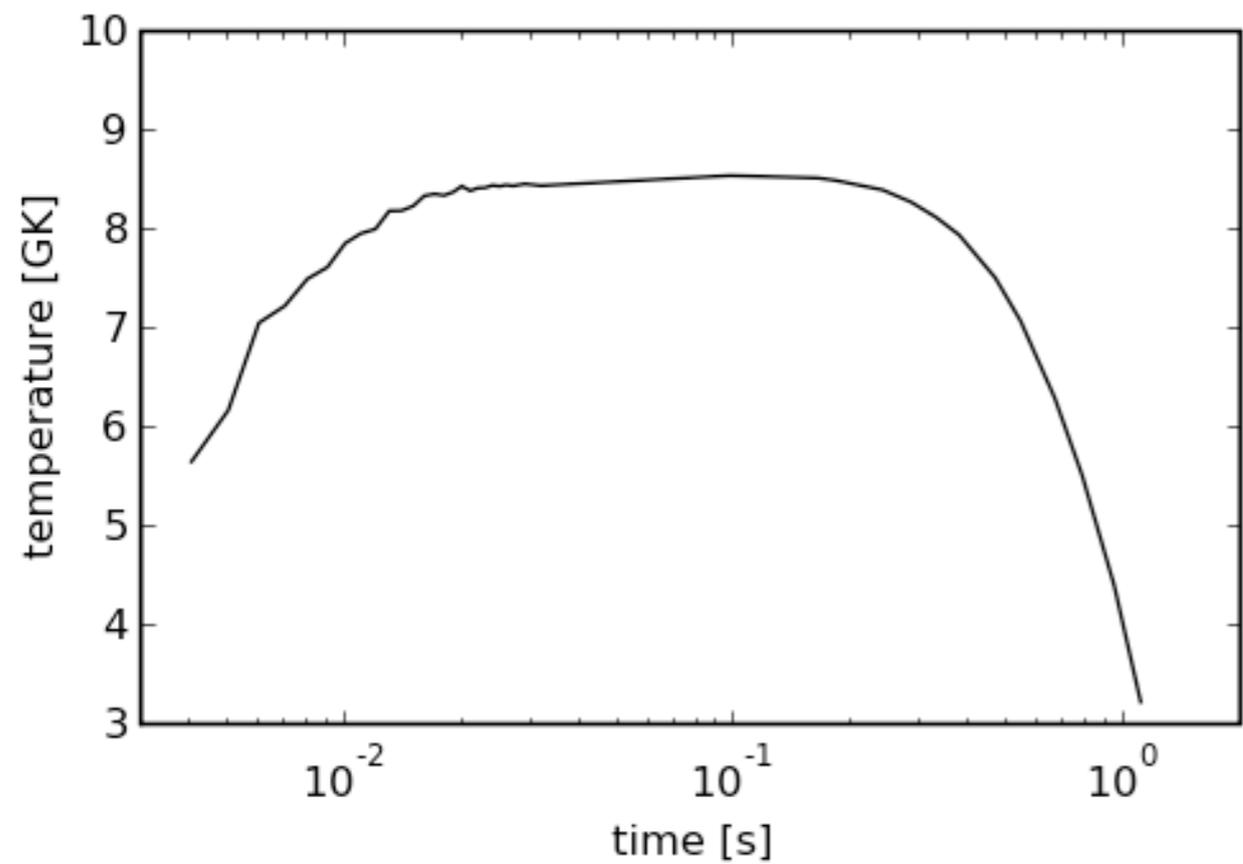




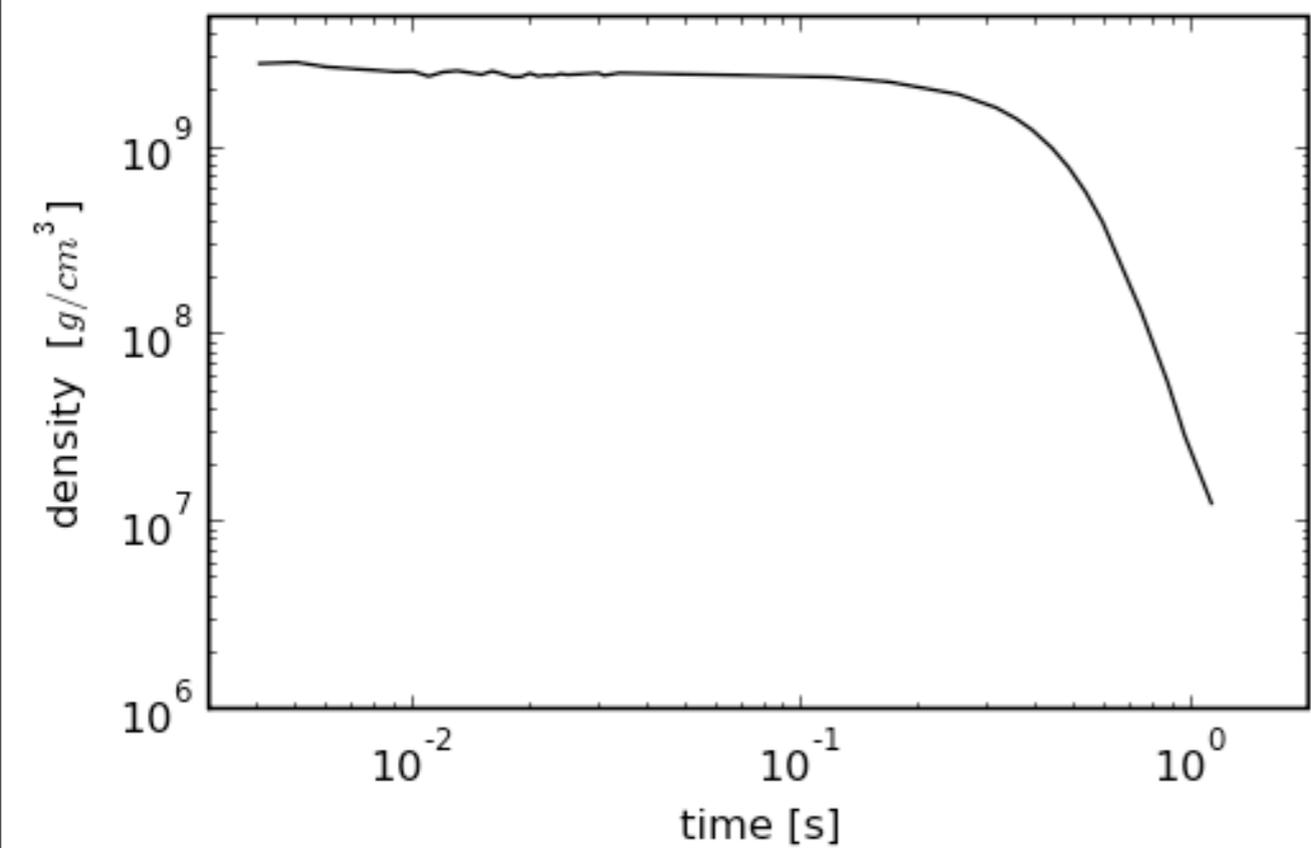
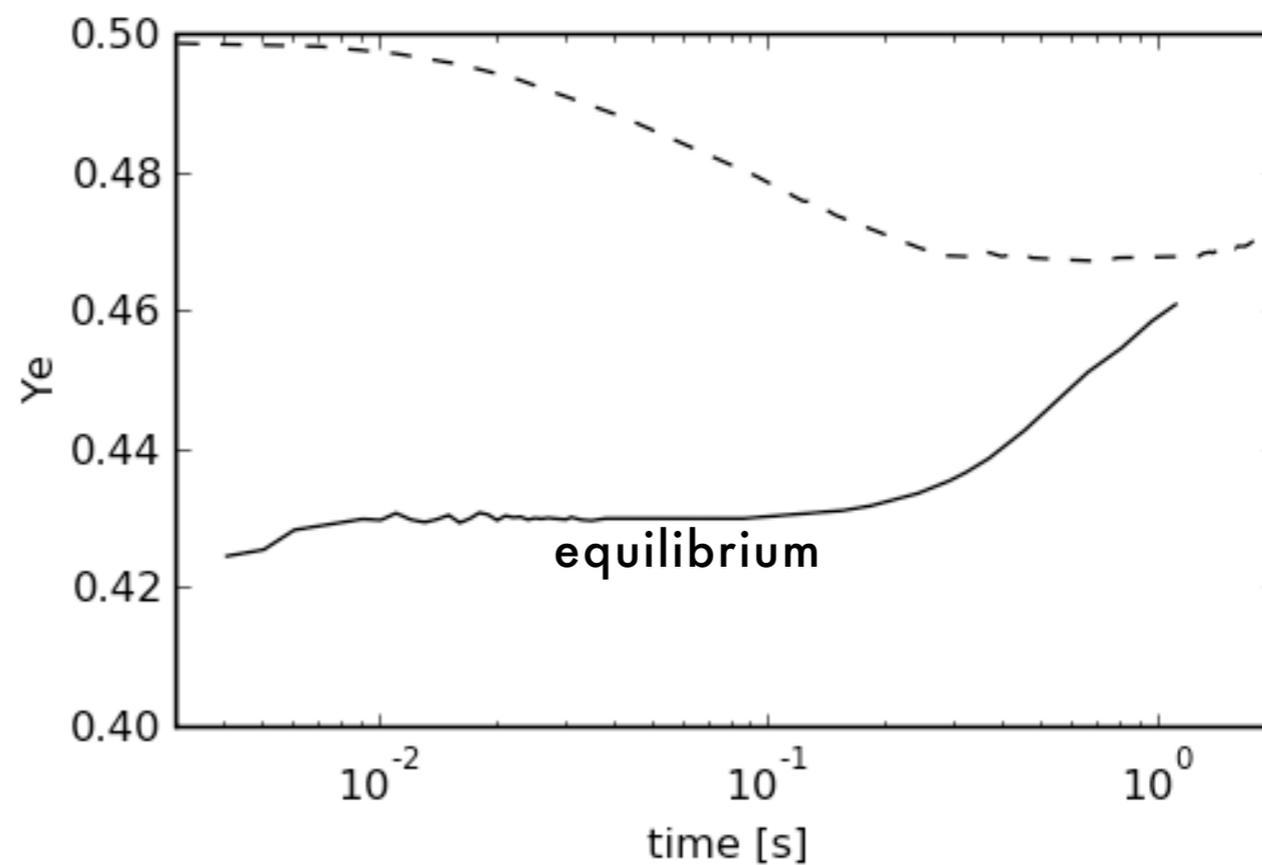


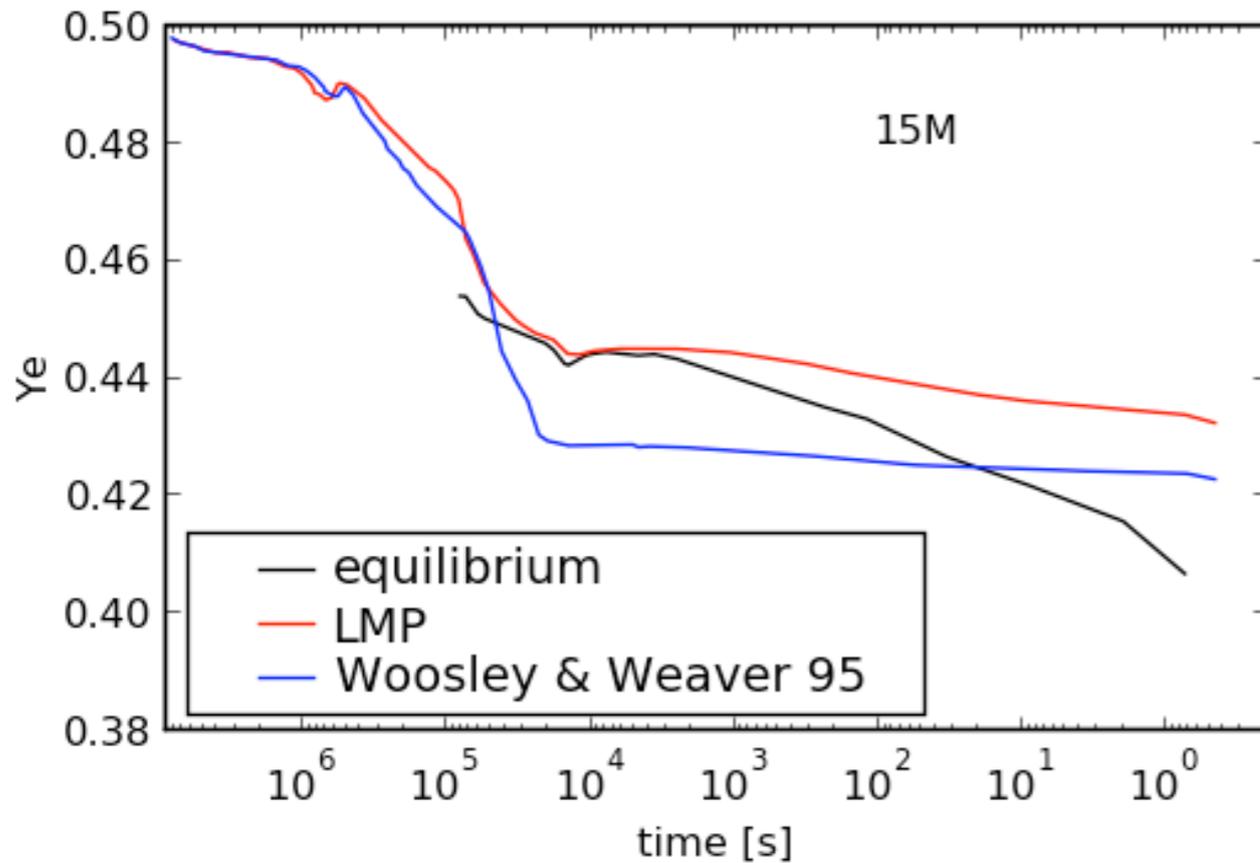
# NSE and beta equilibrium + trajectories from astrophysical environments





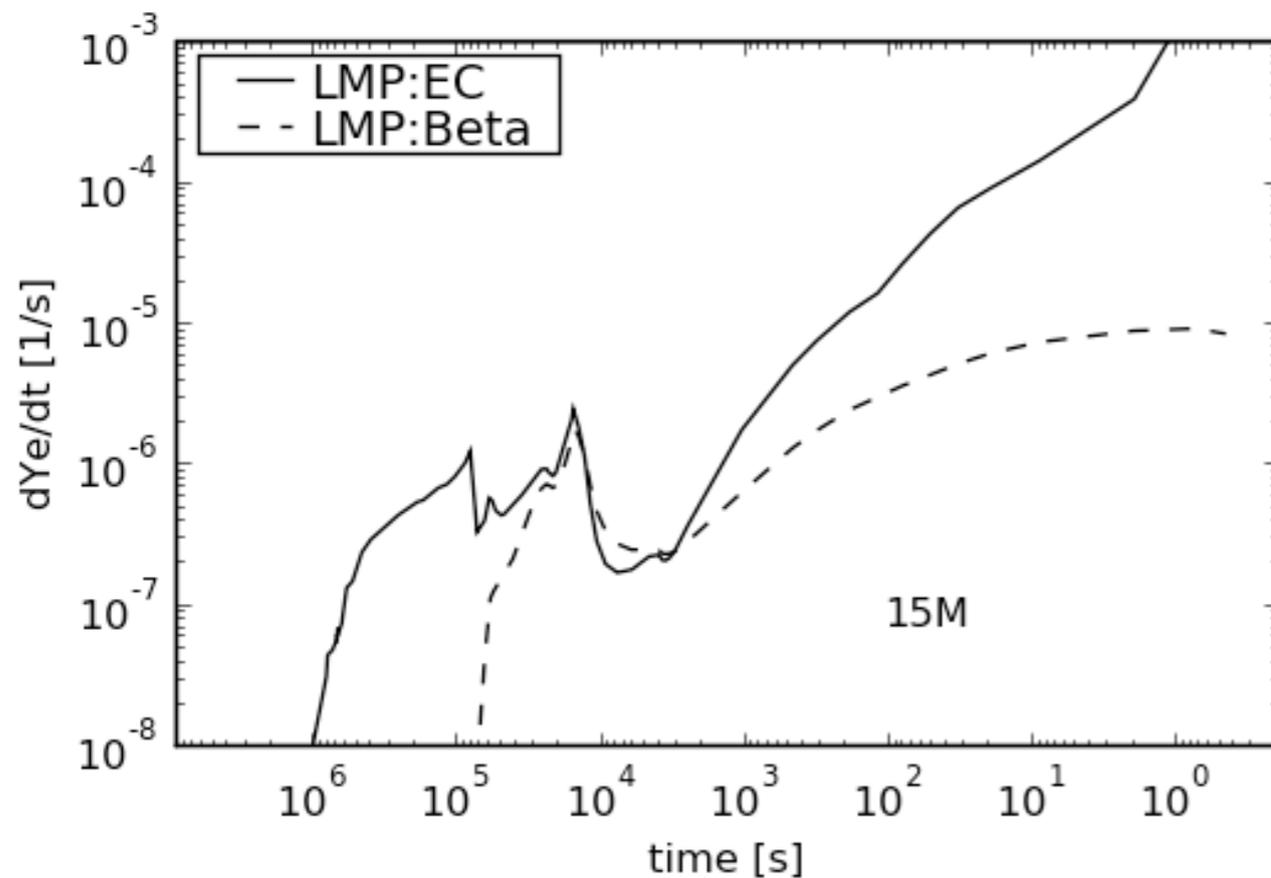
## Supernova type Ia (Fritz Roepke)





We have looked at pre-supernova models for 15 and 25  $M_{\text{sun}}$  where different electron capture and beta decay rates were used.

Old models of WW95 were computed with electron capture rates of Fuller, Fowler, Newman (1980).



New models were recomputed with the rates of Langake & Martinez-Pinedo (2000) including electron captures and beta decays.

