$M = 2.9 M_{\odot}$ X = 0.70 Z = 0.03 $\gamma = 1.67$ 6 × 10 30 (b) mass density (a) mass 8000 6000 6000 kg/m₃] M [kg] 2000 0 0 0.2 0.6 0.2 0.4 8.0 0.4 0.6 0.8 0 0 r/R_s [-] r/R_s [-] ×10¹⁴ <u>×1</u>0⁶ (c) pressure (d) temperature 10 10 8 8 6 6 4 2 2 0 0 0.2 0.4 0.6 8.0 0 0.2 0.4 0.6 0.8 0 r/R_s [-] r/R_s [-] <u>×1</u>0²⁸ (e) luminosity (f) opacity 0 1.512 $\log \kappa \ [\mathrm{m^2/kg}]$ δ 1.511 1.51 1.509 1.508 -3 0 0.2 0.4 0.6 8.0 0 0.2 0.4 0.6 0.8 1 r/R_s [-] r/R_s [-]