$\mathsf{M} = \mathsf{1.0} \; \mathsf{M}_{\odot} \qquad \mathsf{X} = \mathsf{0.70} \qquad \mathsf{Z} = \mathsf{0.03} \qquad \gamma = \mathsf{1.67}$ 2 ×10³⁰ (a) mass (b) mass density $\times 10^4$ 10 8 1.5 ho [kg/m 3] M [kg] 6 0.5 2 0 0 0.2 0.6 0.2 0.4 8.0 0 0.4 0.6 0.8 0 r/R_s [-] r/R_s [-] 2.5 × 10¹⁶ 15 ×10⁶ (c) pressure (d) temperature 2 10 Ба П П П \vdash 5 0.5 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 [-] 4 ×10²⁶ (e) luminosity (f) opacity $\log \kappa \, [\mathrm{m^2/kg}]$ 3 1 0 -2 0.2 0.4 0.6 8.0 0 0.2 0.4 0.6 0.8 1 0 r/R_s [-] r/R_s [-]