$\mathsf{M} = \mathsf{1.6} \; \mathsf{M}_{\odot} \qquad \mathsf{X} = \mathsf{0.70} \qquad \mathsf{Z} = \mathsf{0.03} \qquad \gamma = \mathsf{1.67}$ ×10³⁰ 4 ×10⁴ (a) mass (b) mass density 3 3 $\rho \, [\text{kg/m}^3]$ [kg] M 1 0 0 0.2 0.6 0.2 0.4 8.0 0 0.4 0.6 0.8 0 r/R_s [-] $r/R_s[-]$ 10 × 10 15 2 ×10⁷ (c) pressure (d) temperature 8 1.5 P [Pa] 6 0.5 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 [-] 2 ×10²⁷ (e) luminosity (f) opacity $\log \kappa [m^2/kg]$ 5 c 1 c 0 1.95 1.9 1.85 1.8 — -3 0.2 0.4 0.6 8.0 0 0.2 0.4 0.6 0.8 1 1 r/R_s [-] r/R_s [-]