Age 6.002 (Gyr) Summary – Age 6.002 (Gyr) Mass 1.00 (M_{\odot}) Energy input $(log\ ergs/g/s)$ $\log L$ 0.2298 WIMP annihilation ∇_{rad} $\log T_{eff}$ 3.7828 $\log T_c$ 7.2718 dlnT/dlnP $\log \rho_c$ 2.4820 $50\%~M_{tot}$ -1.2759 95% $\log scp_c$ 8.2475 99.9% C + CHe Core 0.0053 Neutrinos C/O Core 0.0000 T_{max} Mass 0.0000 $T_{max} \log \rho$ 2.4820 $\log T_{max}$ 7.2718 $\log \kappa_{max}$ 4.7911 $log L_{max}$ 0.2299 HydrogenHelium 2.4820 $\log \rho_{max}$ Carbonionization fraction $log R_{max}$ 0.0727 Nitrogen log mass frac $\log P_{max}$ 17.6200 Oxygen He^+ 9.0 Neon $\log L_{\nu}$ -6.7619 $log L_{PP}$ 0.1901 65 50% Mea $log L_{CNO}$ -0.7835 $\log L_{3\alpha}$ 99.9% -99.0000 $\log L_{C+\alpha}$ -28.7524 $log L_{N+\alpha}$ -33.6285 $log L_{O+\alpha}$ -99.0000 $\log L_{\text{other}}$ -99.0000 0 T/T_{max} T/T_{max} Center XH 0.0973 7 XHe L/L_{max} L/L_{max} 0.8927 ρ/ρ_{max} XC 0.0000 ρ/ρ_{max} R/R_{phot} $-R/R_{phot}$ log ratio log ratio XN 0.0050 - P/Pmax M/M_{tot} XO 0.0023 XNe 0.0009 50% M_{tot} 95% $\log t_{nuclear}$ 9.7867 99.9% 6.5939 $\log t_{thermal}$

0.2 0.4 0.6 0.8

enclosed mass (M_☉)

Model 87

-4.0379

7.9151

 $\log t_{dynamic}$

 $\log t_{step}$