

$$L = 4\pi R^2 T_e^4 \sigma$$

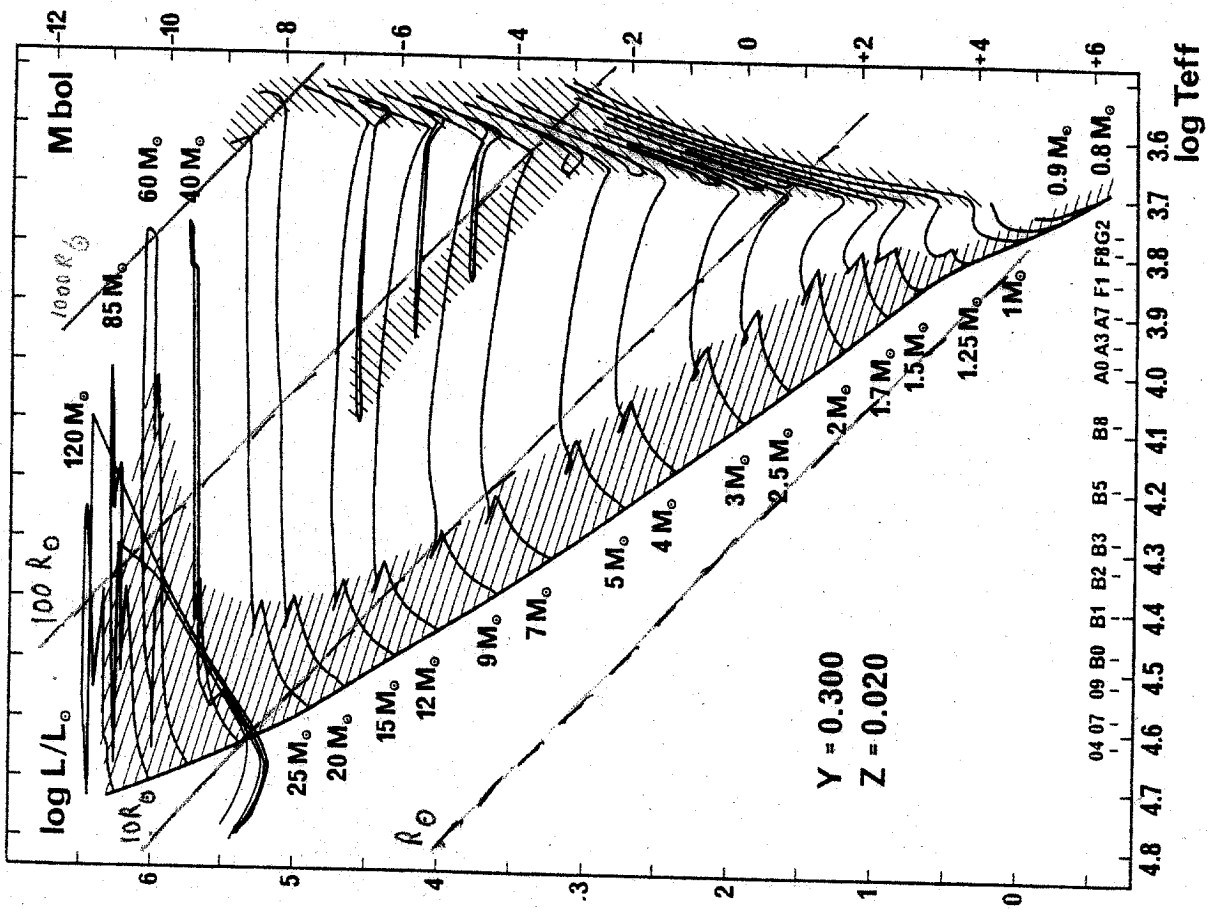


FIGURE 1. Theoretical HR diagram for the ensemble of the calculated models for solar metallicity with an overshooting parameter $\alpha_{\text{over}} = d_{\text{over}}/H_p = 0.20$. The slow phases of nuclear burning are indicated by hatched areas. At $1.25 M_{\odot}$, the model shown in the figure is the one without overshooting. The spectral types are taken from Kudritzki & Hummer (1986) and from Böhm-Vitense (1981).

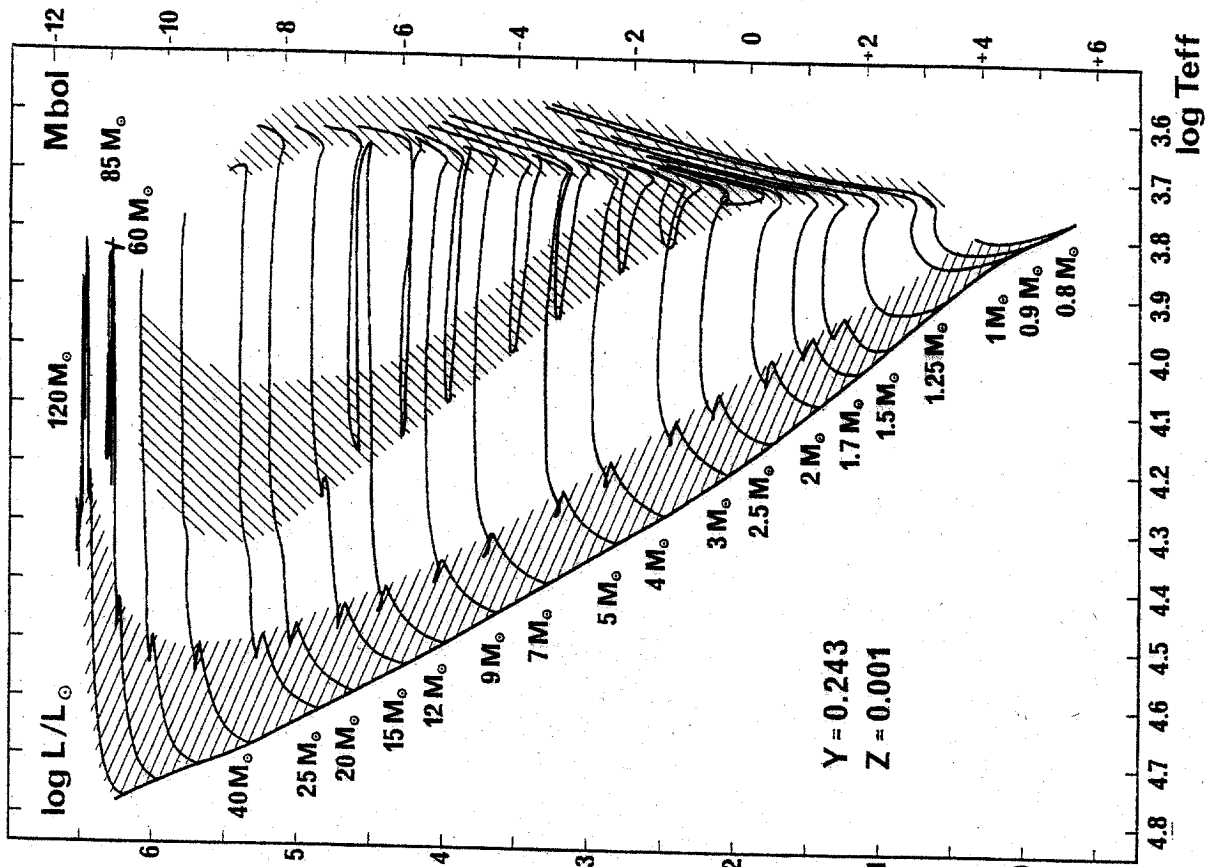


FIGURE 2. Same as in Figure 1 for an initial metallicity $Z = 0.001$.