



Figure 5.1: For the best-fit model of GD 358 from Table 4.2 this plot shows the change in pulsation period for $\ell = 1$ modes of various radial overtone number (k) which result from a smooth artificial 10% decrease in the Brunt-Väisälä frequency as a function of the natural log of the ratio of the distance from the center of the model to the local pressure (top axis) and the fractional mass coordinate $-\log(1 - m/M_*)$ (bottom axis). The center of the model is to the left, and the surface is to the right. Also indicated is the mass fraction expressed as a percentage for several values closer to the center.