



**Fig. 4.** Left: VLT spectra of PG1159 stars in the vicinity of the Ne VII 3644 Å line (indicated by the vertical shaded bar) and the O VI 3s–3p doublet at 3811/3834 Å. Right: Expanded view centered around the Ne VII line. Overplotted are model spectra with Ne=2%, labeled with their  $T_{\text{eff}}$  (in kK) and  $\log g$ . Smoothing of observed spectra with Gaussians (FWHM given): left panel: 0.4–0.7 Å, right panel: no smoothing, except for Longmore 3 (0.2 Å). The model spectra are smoothed accordingly. The NGC 246 model is also rotationally broadened (70 km/s).