



Fig. 42.7. Time series (left-hand panel) and spectra (right-hand panel) of the three velocity components along the main lake axis (u_{long}), normal to the lake axis (u_{trans}), and vertical (w). The measurements were carried out in the BBL of Lake Hallwil (Switzerland), revealing intense internal seiching along the two axes of the lake and external (surface) seiching along the main axis (data by courtesy of D. McGinnis, unpublished). The periods of the local spectral maxima correspond well to the classical estimates (42.9) and 42.10). The line $\sim \omega^{-2}$ in the spectrum plot shows the universal spectrum of high-frequency internal waves (Garret and Munk, 1972).