



Figure S2: Expected normalised site-frequency spectrum. Estimates $\bar{\zeta}_i^{(n)}$ $\left(\zeta_i^{(n)} = \frac{\xi_i^{(n)}}{|\xi^{(n)}|}\right)$ where $|\xi^{(n)}| = \xi_1^{(n)} + \dots + \xi_{n-1}^{(n)}$ denotes the total number of segregating sites, of expected normalized spectra $\mathbb{E} \left[\zeta_i^{(n)} \right]$ with all $n = 100$ sampled lines assumed active, active mutation rate $\theta_1 = 2$, and with c , K , and inactive mutation rate θ_2 as shown. The entries labelled ‘6+’ represent the collected tail $\bar{\zeta}_{6+}^{(n)} = \sum_{i \geq 6} \bar{\zeta}_i^{(n)}$. Estimates are based on 10^5 replicates.