



FIGURE 18.9. The spread of an allele with advantage $s = 0.5\%$. At first, numbers of the allele grow exponentially as $\exp(st)$ and spread out in a normal distribution with variance $\sigma^2 t$ in each direction. As the allele approaches fixation at the center, it spreads out behind a wave of advance, which has speed $2s\sigma^2$ —in this example, 0.1σ per generation. Graphs are for $t = 400$, 1000, 2000, and 3000 generations.