

S1 Figure: Robust transition from monomorphic to polymorphic populations. The transition from domination of individuals with q = 1 to domination individuals with intermede value of q, s_0 (solid blue line, Eq. (S1)), decreases and approaches zero as $\alpha \to \infty$. However, the transition from monomorphic to polymorphic populations always appears: s_1 (solid red line) never approaches zero but rather approaches infinity when $\alpha \to 1$ and when $\alpha \to \infty$. Note that \hat{s}_1 (dashed red line, Eq. (S6)) well-approximates s_1 for large values of α . Parameters: F(q) = -q.