Direct interactions distributions of the 4 density-dependent functions 1.0 alpha_ii alpha_ij 0.5 0.0 -0.5 **-**Density-dependent functions Resulting effect function_1 function_2 alpha_ji alpha_jj function_3 0.8 function_4 0.6 -0.4 0.2 0.0 species i species j -5 0 10 5 Neighbour density