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