Prediction of parameters' effect for each function on the stability of one species in 2-species community alpha.0.inter alpha.decay.inter C.inter N.opt.inter 5 5 3 3 Stability ratio (log+1) low values equal lower stability and < 1 is unstable 1.Constant 2.Linear -0.5 0.0 0.5 -1.00 -0.75 -0.50 -0.25 0.00 -1.00 -0.75 -0.50 -0.25 0.00 0.0 2.5 5.0 7.5 -1.010.0 alpha.0.intra alpha.decay.intra N.opt.intra C.intra 3.Exp 5 4.Sigmoid 4 3 3 2 2

2.5

5.0

7.5

10.0

-1.00 -0.75 -0.50 -0.25 0.00 -1.00 -0.75 -0.50 -0.25 0.00 -1.00 -0.75 -0.50 -0.25 0.00

Range of value specific to the parameters, from low to high