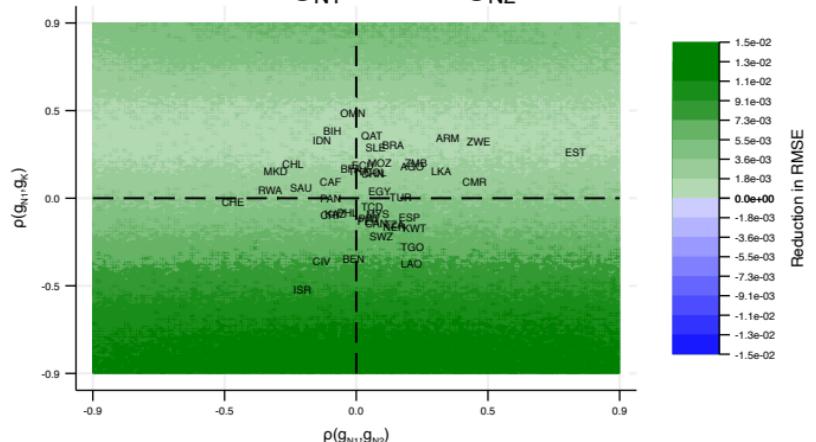
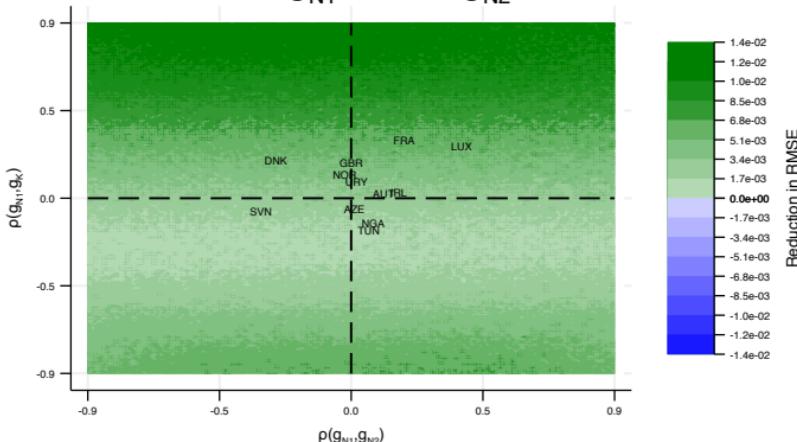


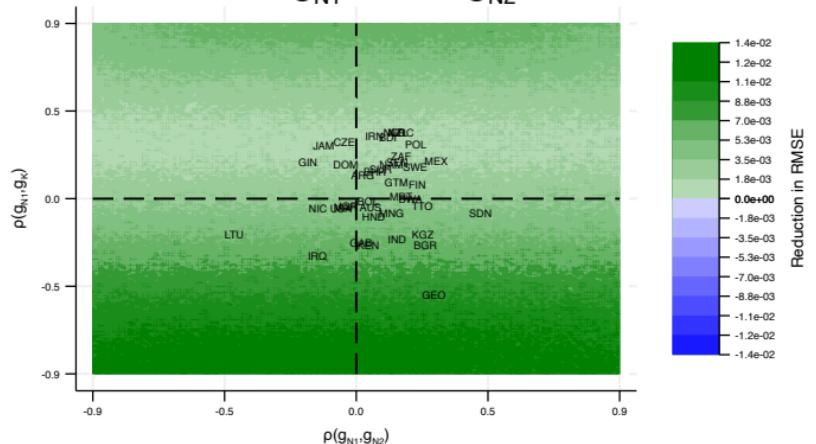
Case 1: $g_{N_1} > 0$ and $g_{N_2} > 0$



Case 2: $g_{N_1} < 0$ and $g_{N_2} > 0$



Case 3: $g_{N_1} > 0$ and $g_{N_2} < 0$



Case 4: $g_{N_1} < 0$ and $g_{N_2} < 0$

