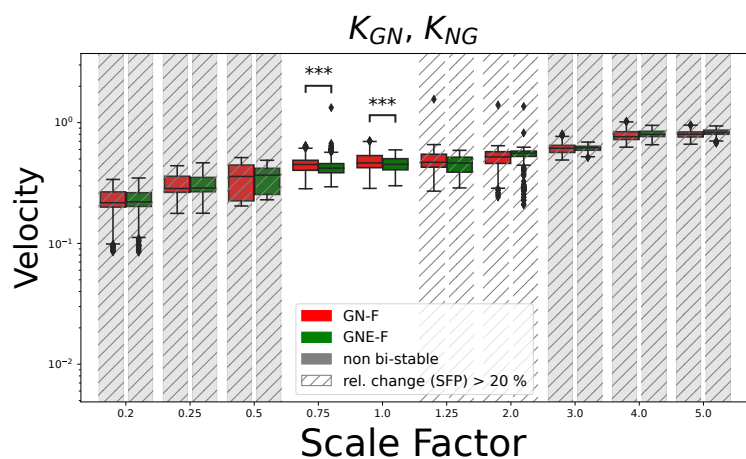
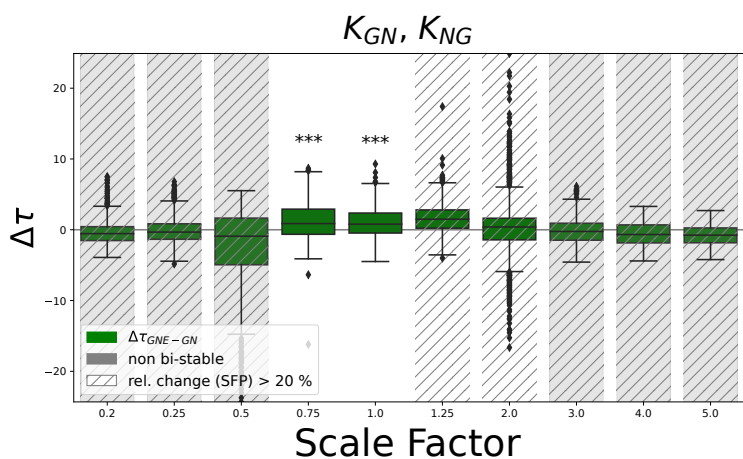
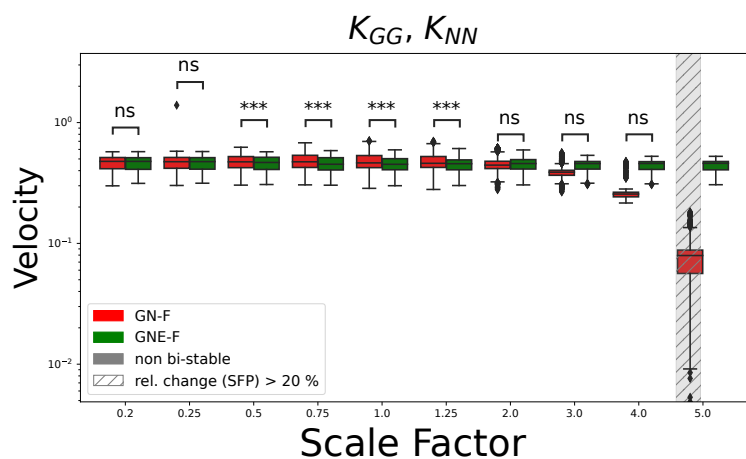
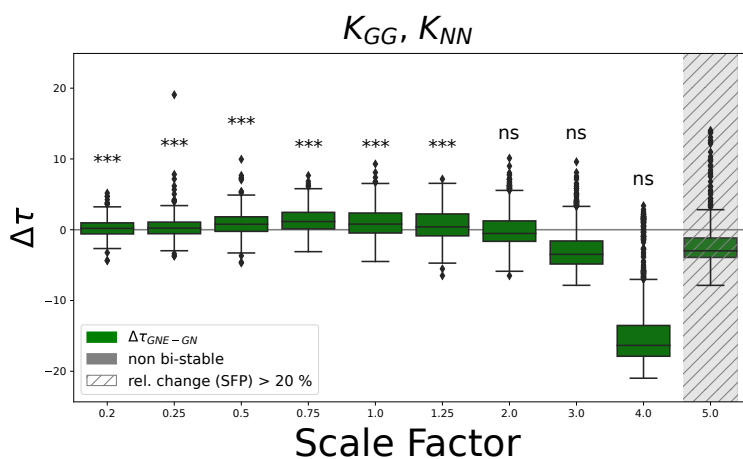
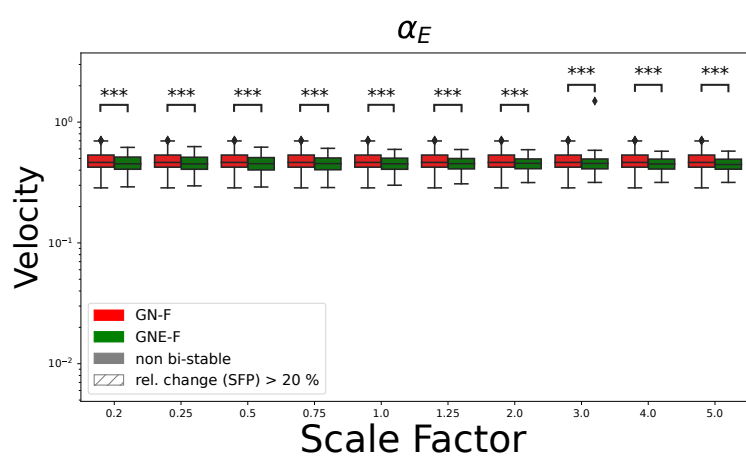
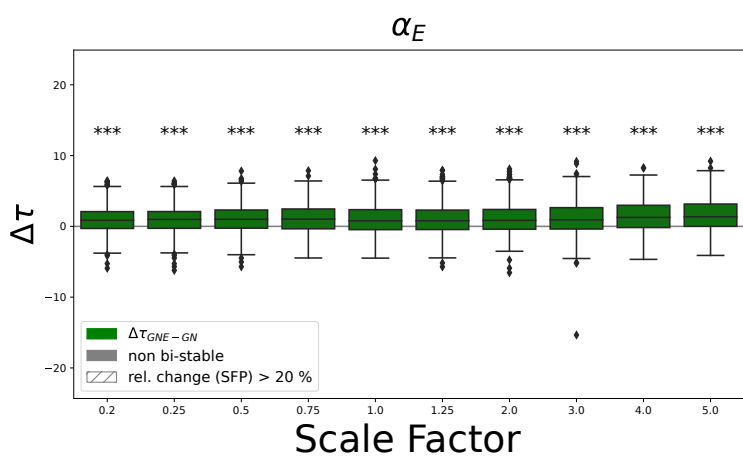
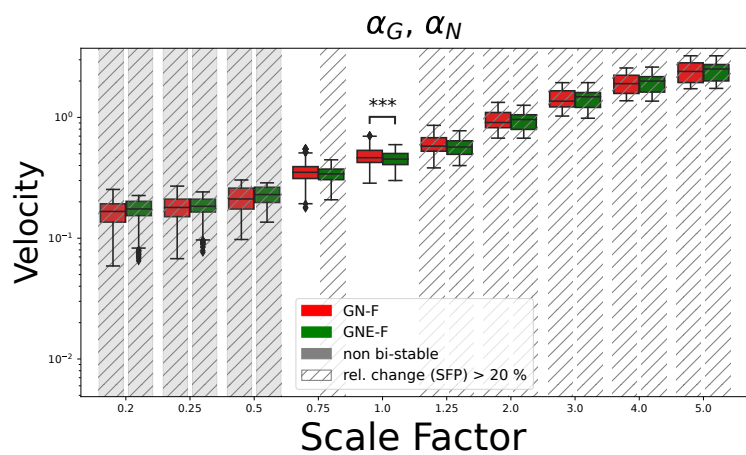
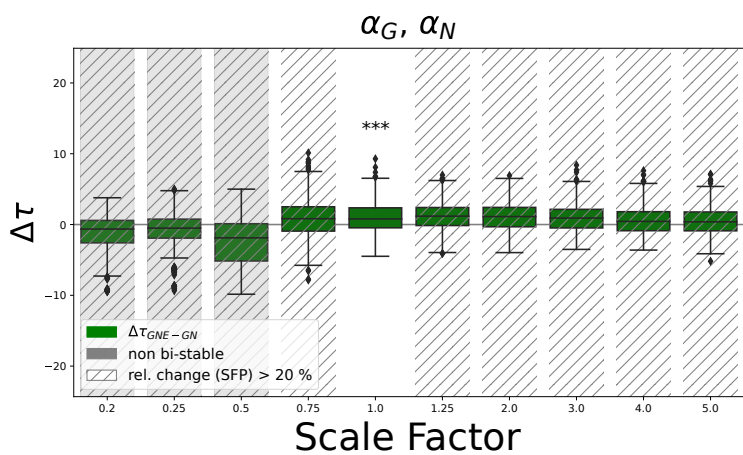
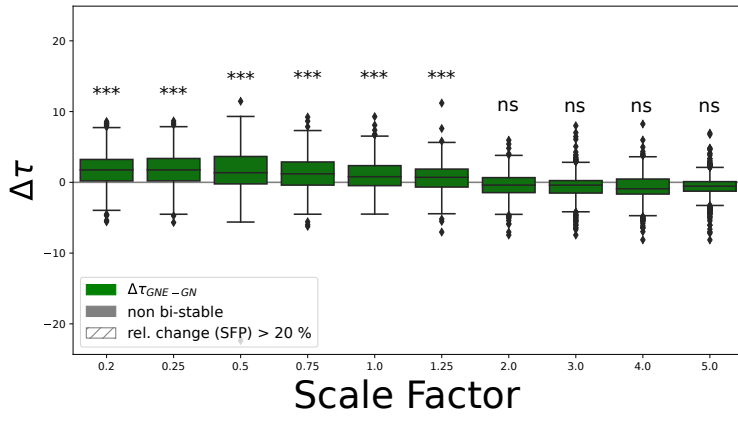


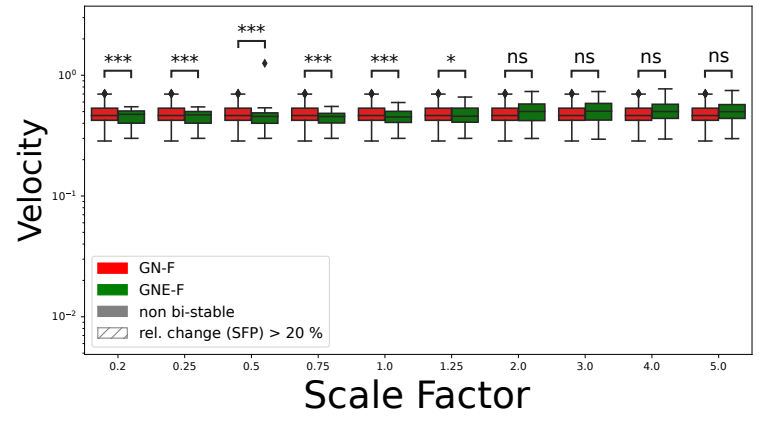
# Parameter Sensitivity Analysis for the GN and GNE network



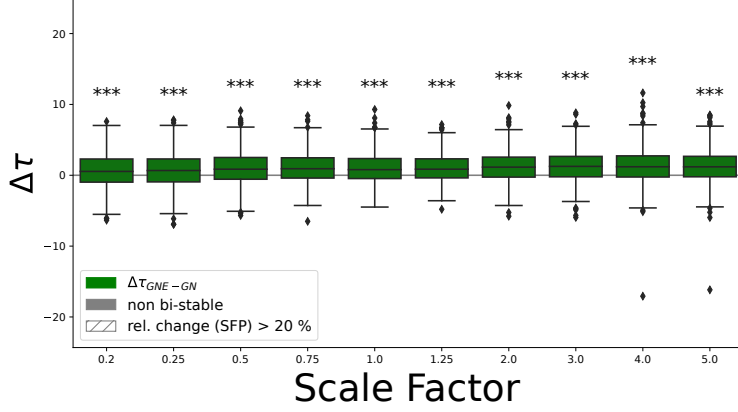
$K_{EN}, K_{NE}$



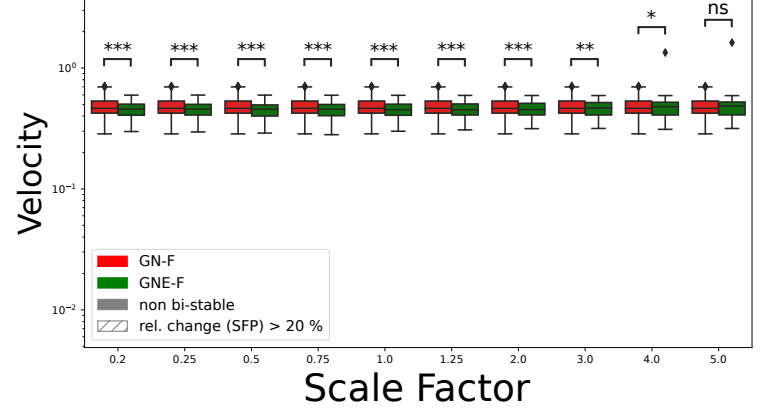
$K_{EN}, K_{NE}$



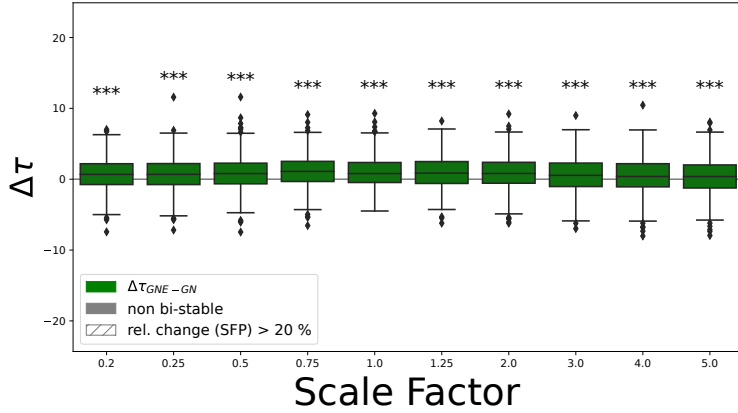
$K_{NEG}$



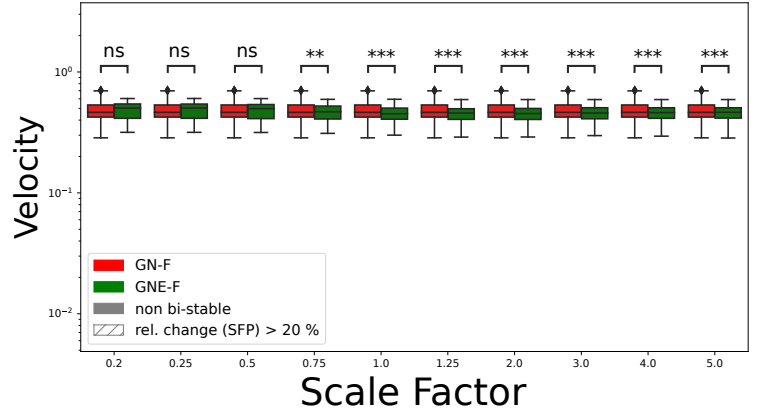
$K_{NEG}$



$K_{EG}$



$K_{EG}$



## Statistical Test Results:

### Significance Key:

- \* = p-value < 0.05
- \*\* = p-value < 0.01
- \*\*\* = p-value < 0.001
- ns = p-value > 0.05 (not significant)

### The List of Null Hypothesis and statistical tests:

In the above box plots, the following null hypothesis ( $H_0$ ) have been tested:

- A) The  $\Delta\tau_{GNE-GN}$  are equal to or smaller than zero.
- B) The velocities of the  $GNE-F$  network model are equal to or larger than the velocities of the  $GN-F$  network model.

Null hypothesis A is tested using the one-sided Wilcoxon signed-rank test.

Null hypothesis B is tested using the one-sided Mann-Whitney U test.

All test results can be found on GitHub Repository "masters\_thesis" in folder "distribution stats" ([https://github.com/SiljaSvendsen/masters\\_thesis/tree/main/distribution%20stats](https://github.com/SiljaSvendsen/masters_thesis/tree/main/distribution%20stats)).