## control experiment 5G A3 recent

## May 29, 2025

```
[12]: import importlib
      import src.plots
      importlib.reload(src.plots)
[12]: <module 'src.plots' from '/Users/milenaangelova/git-
      repo/FedCluLearn/src/plots.py'>
[13]: from src.plots import plot_plotly, preprocessing_results
[14]: local FedAvg = 'results/results_FedAvg_2025-02-07_12:00:47.595969.txt'
      global FedAvg = 'results/global model evaluation FedAvg 2025-02-07 12:00:47.
       ⇒595969.txt'
      local FedCluLearn = 'results/results FedCluLearn 2025-02-07 15:14:25.180267.txt'
      global_FedCluLearn = 'results/global_model_evaluation_FedCluLearn_2025-02-07 15:
       914:25.180267.txt '
      local_FedAtt = 'results/results_FedAtt_2025-02-15 16:34:45.104528.txt'
      global_FedAtt = 'results/global_model_evaluation_FedAtt_2025-02-15 16:34:45.
       →104528.txt'
      local_FedProx = 'results/results_FedProx_2025-02-16 09:25:39.935276.txt'
      global_FedProx = 'results/global_model_evaluation_FedProx_2025-02-16 09:25:39.
       ⇒935276.txt'
      local_FedCluLearn_Prox = 'results/results_FedCluLearn_Prox_2025-02-26 12:13:55.
       \hookrightarrow152525.txt'
      global_FedCluLearn_Prox = 'results/
       -global_model_evaluation_FedCluLearn_Prox_2025-02-26 12:13:55.152525.txt'
[15]: local_filenames = [local_FedCluLearn, local_FedAvg, local_FedAtt,_u
      →local_FedProx, local_FedCluLearn_Prox]
      global_filenames = [global_FedCluLearn, global_FedAvg, global_FedAtt,__
       ⇒global_FedProx, global_FedCluLearn_Prox]
[16]: mse_column = 'mse'
      n_rounds, y = preprocessing_results(filenames=local_filenames,__
```

```
plot_plotly(n_rounds, y, title='Avg MSE Local models', u

→y_axis_title=f'{mse_column.upper()} error', y_axis_max=0.3)
```

























