

Machine Learning Gravitational Waveforms for Binary Neutron Star mergers

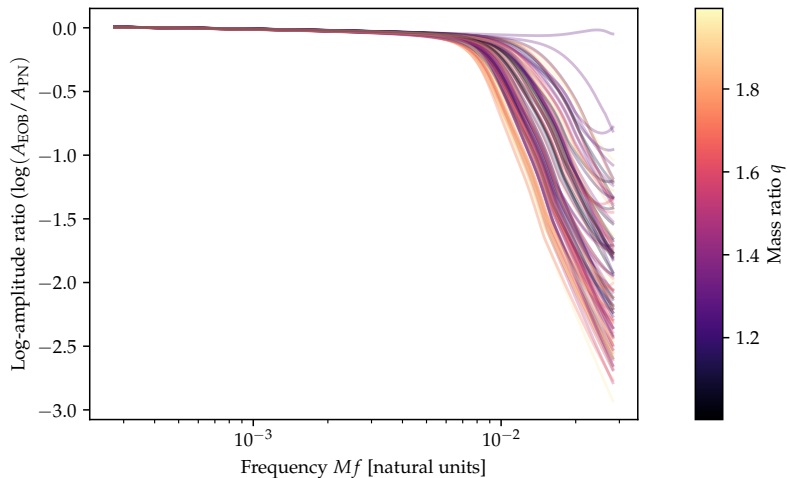
Jacopo Tissino

2021-09-10

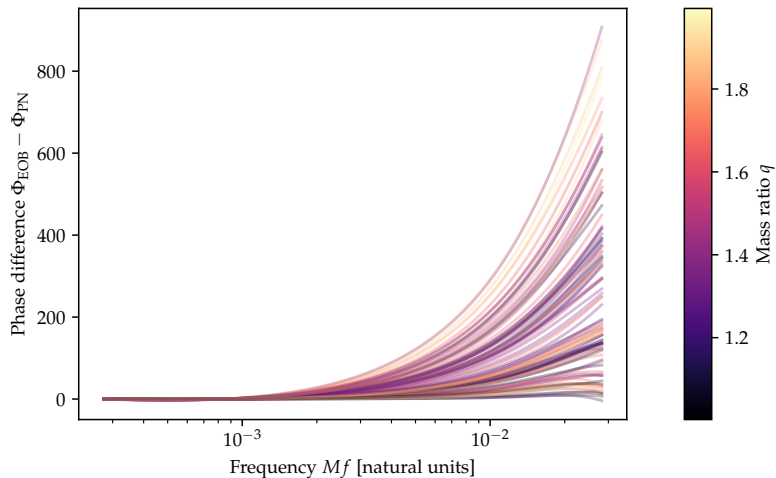
Structure



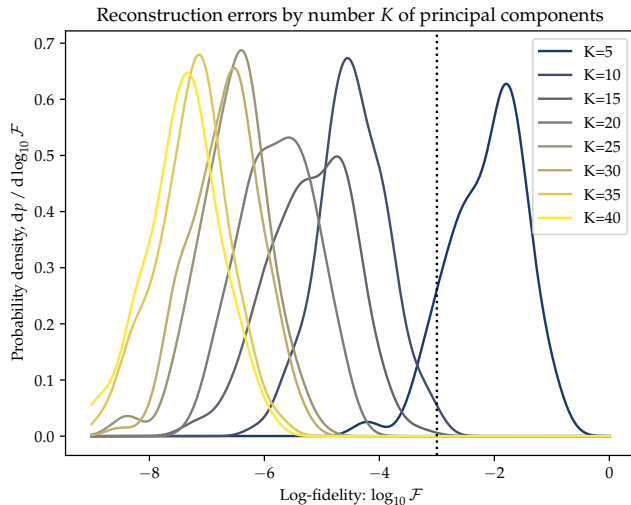
Residuals: amplitude



Residuals: phase

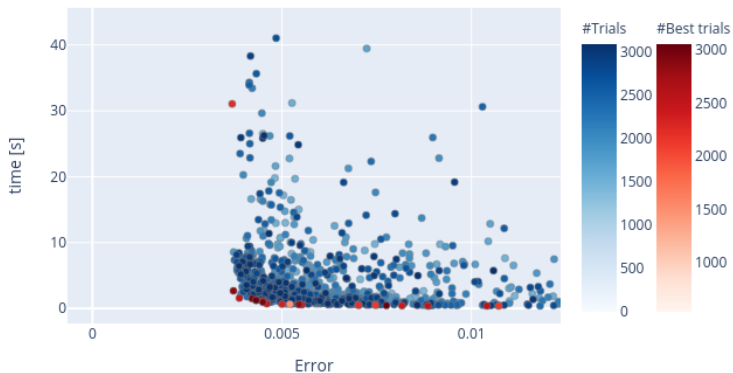


PCA mismatches

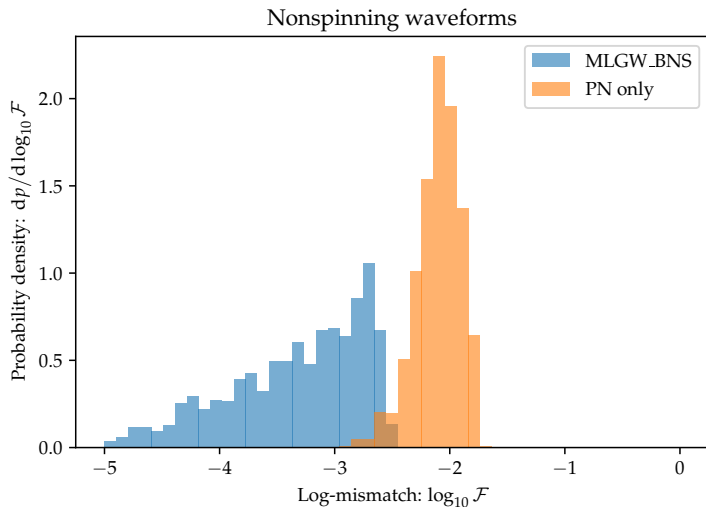


Hyperparameter optimization

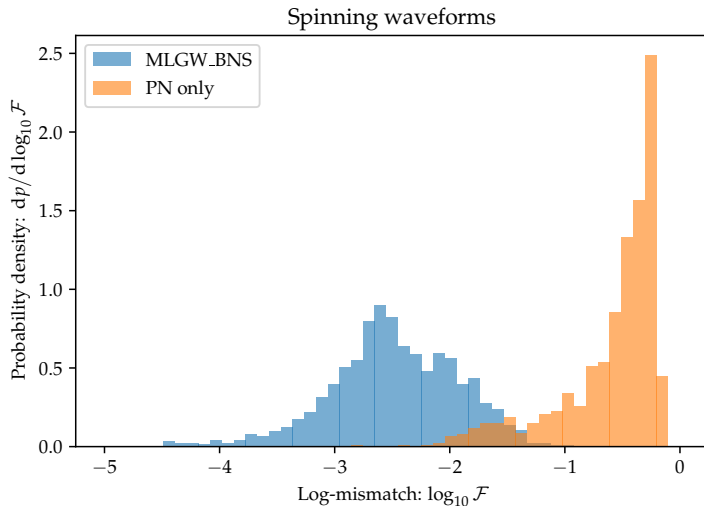
Pareto-front Plot



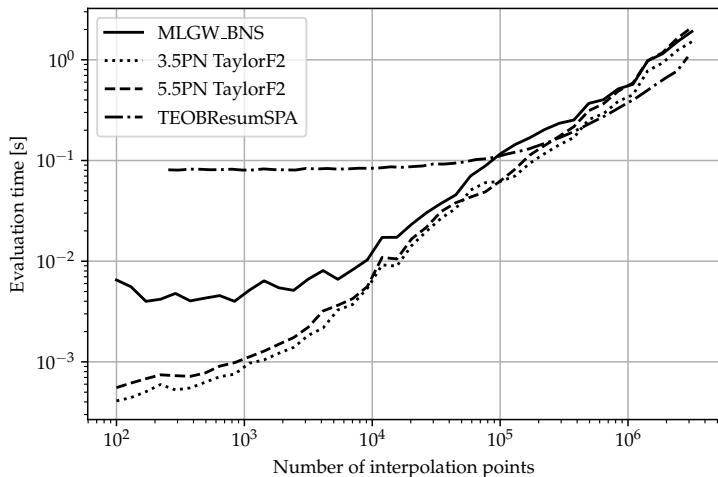
Fidelity: nonspinning case



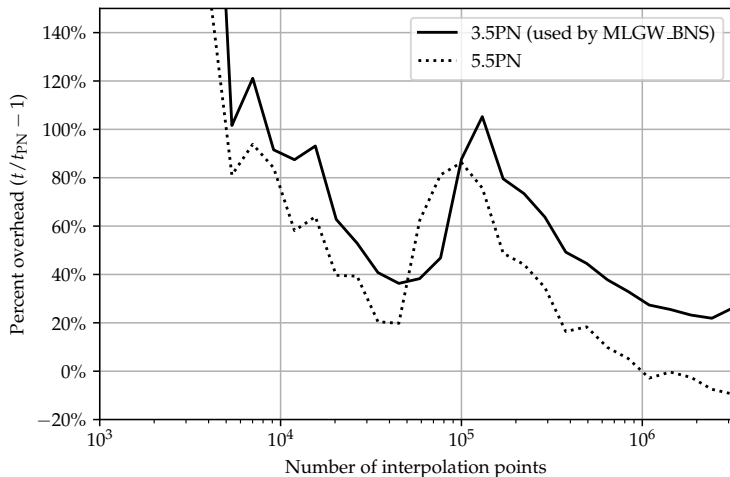
Fidelity: spinning case



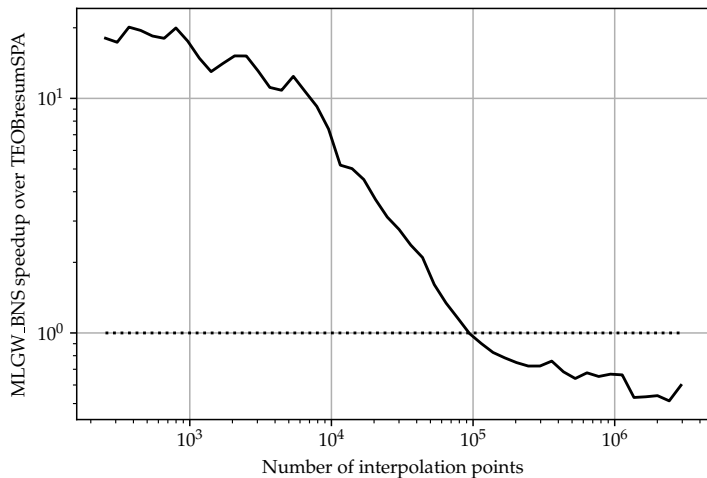
Evaluation time



Evaluation time



Evaluation time



Bibliography