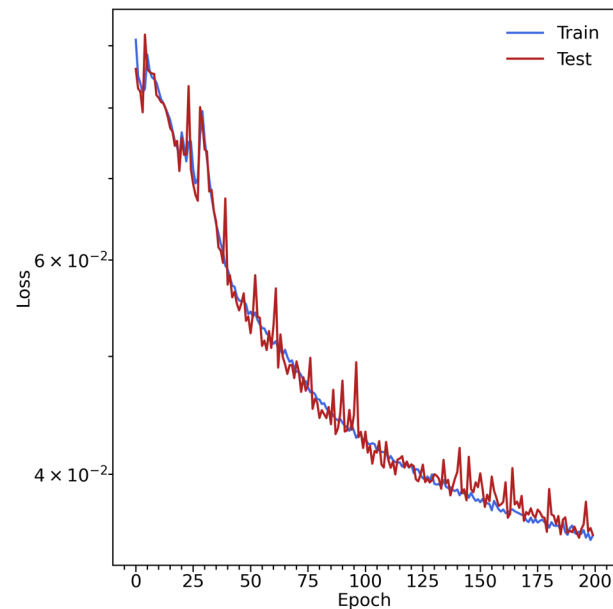
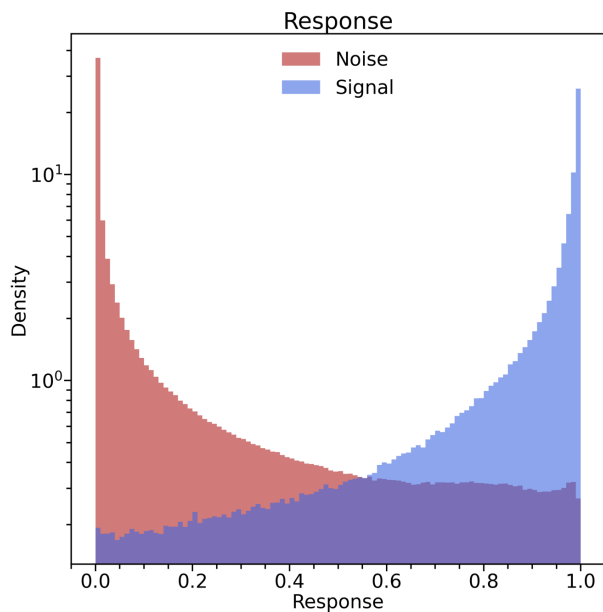
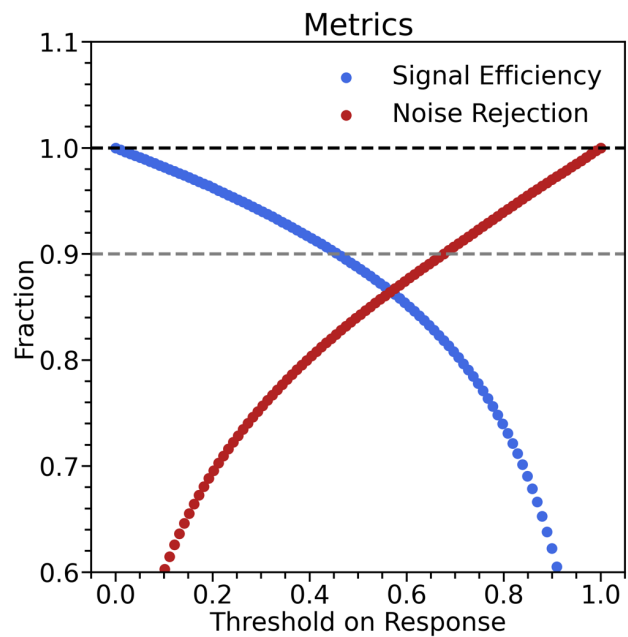
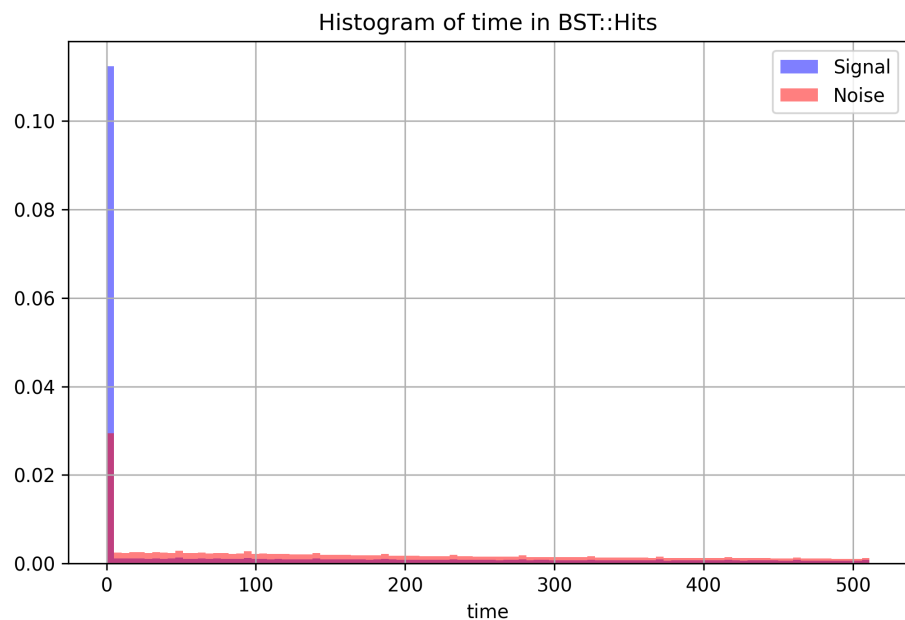


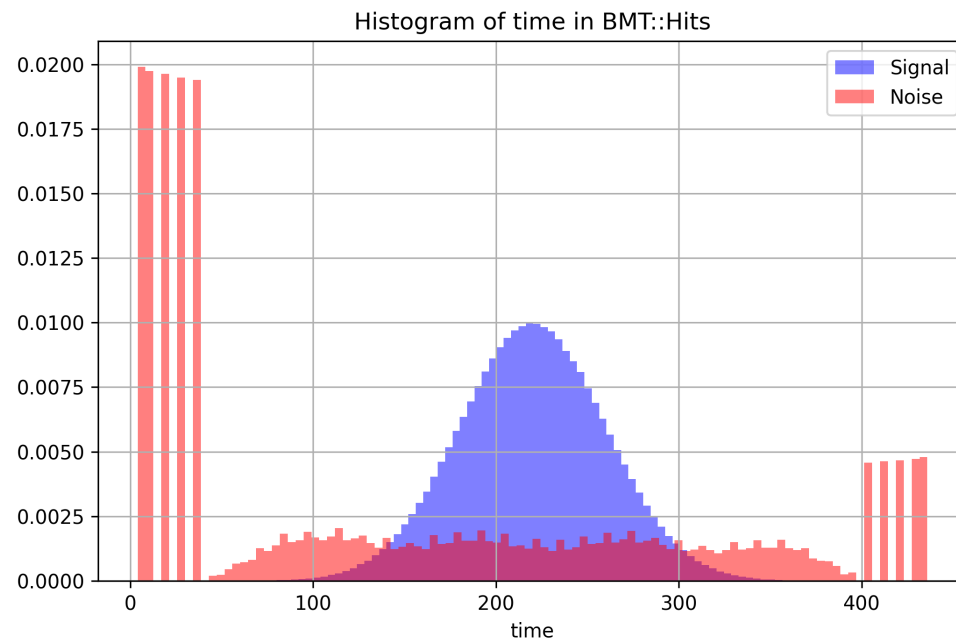
Variables : strip layer cweight sweight



Histograms of time in BST and BMT

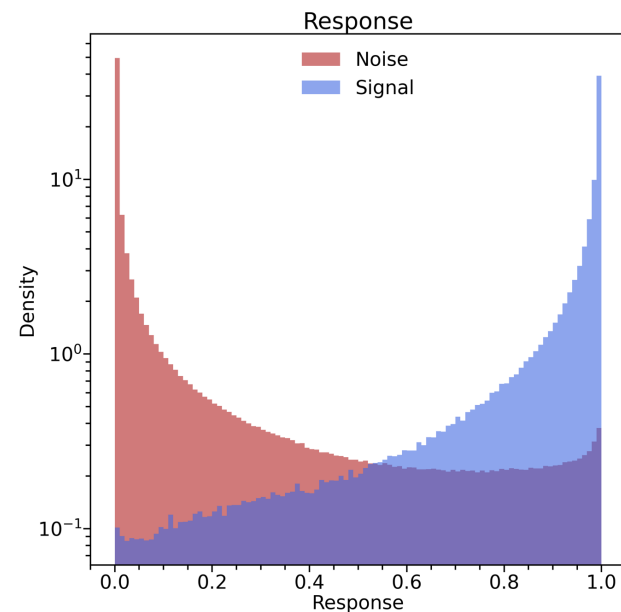
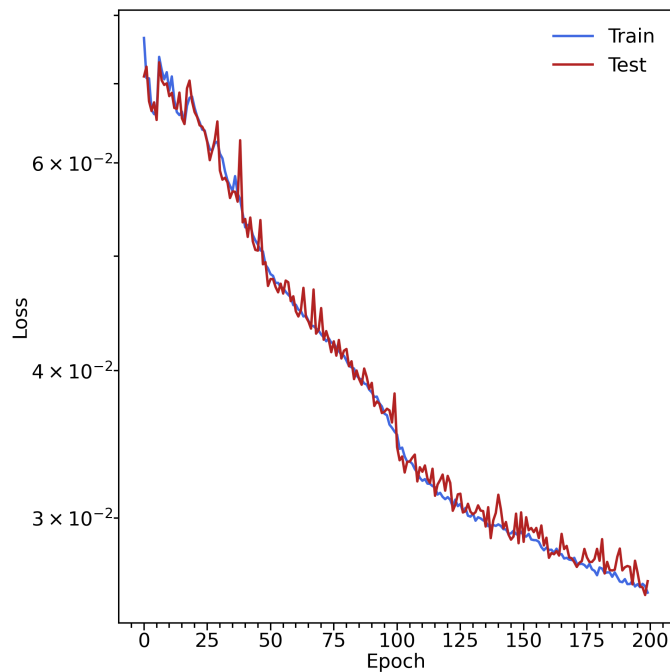
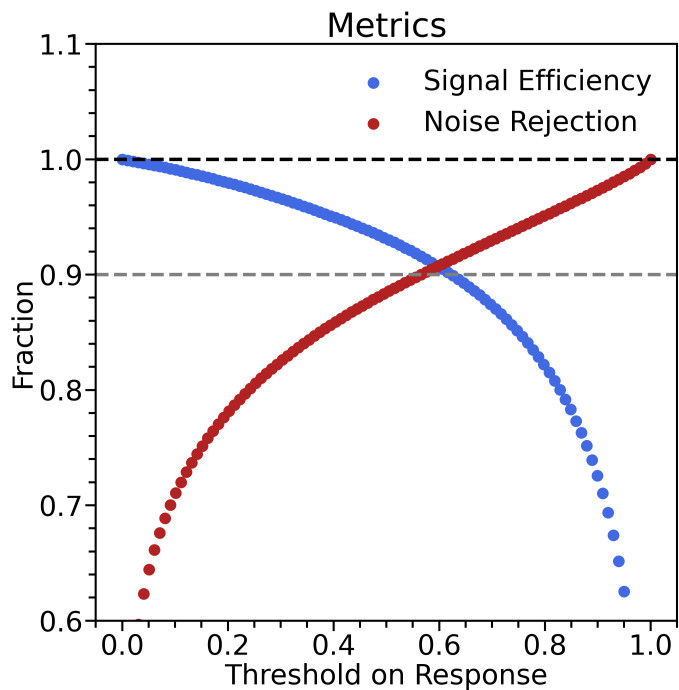


BST : seems unrealistic time for signal

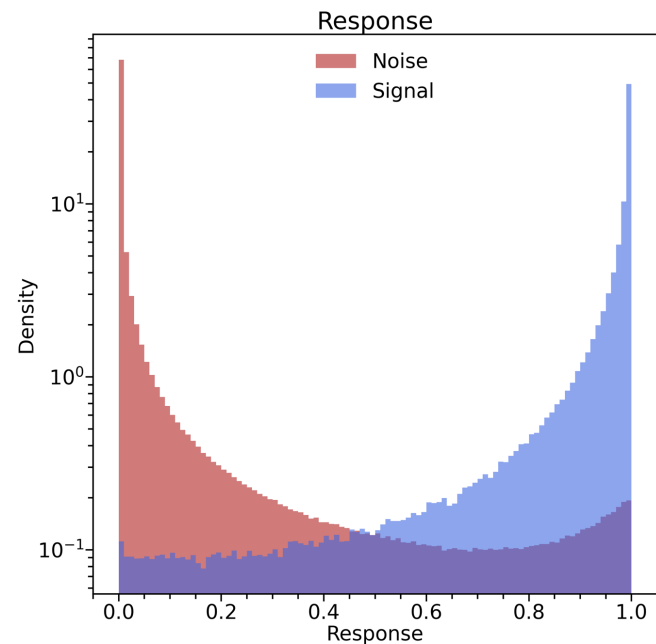
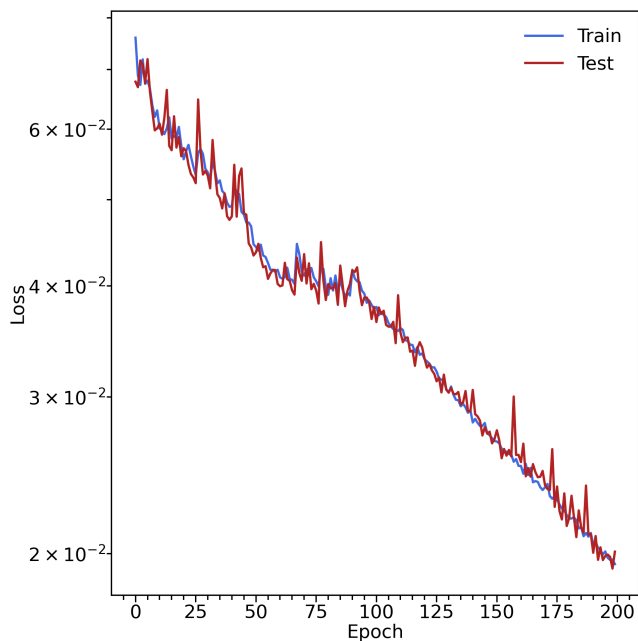
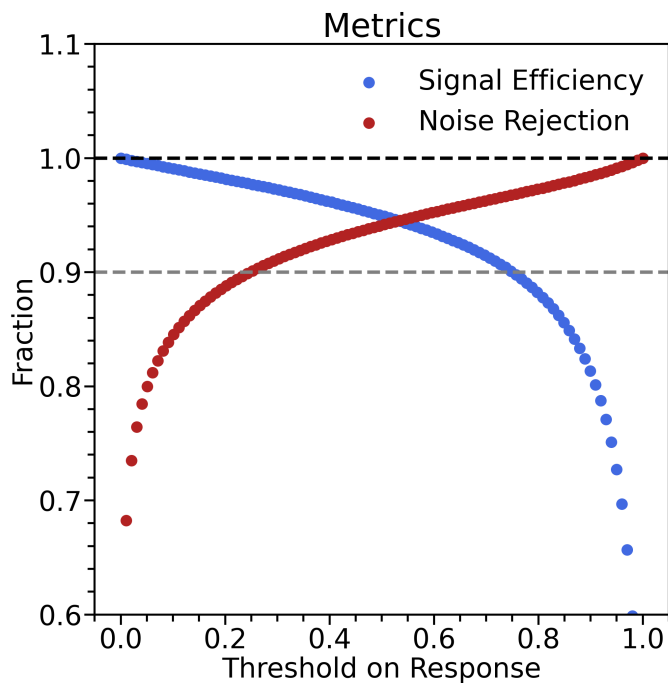


BMT : The time for signal could be correctly simulated

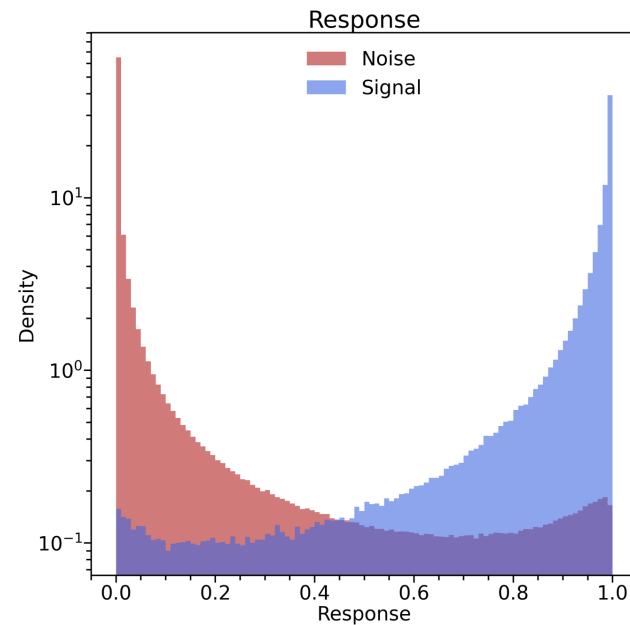
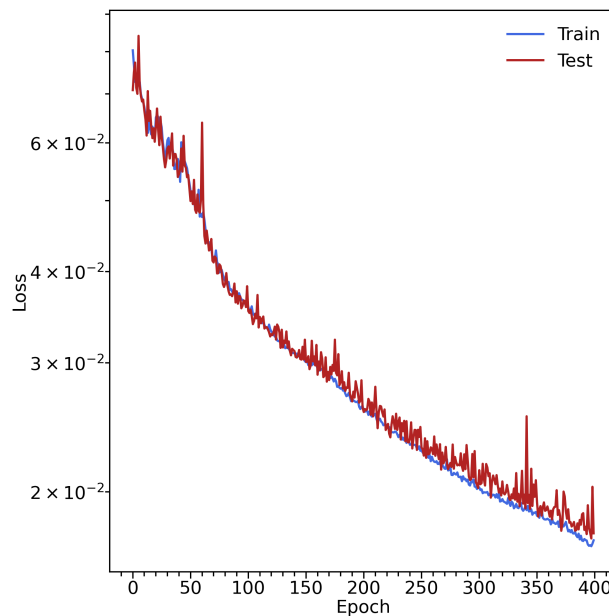
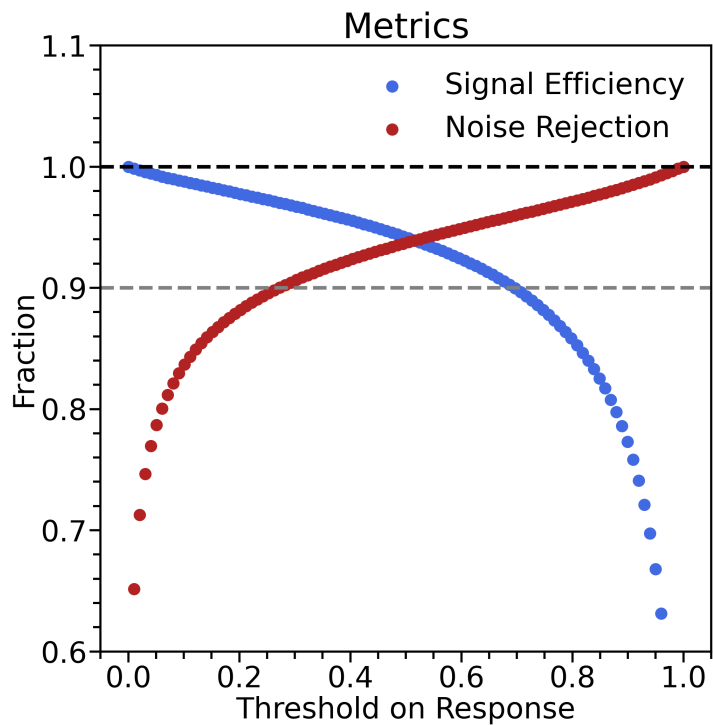
Variables : strip layer cweight sweight + BMT time



Variables : strip layer cweight sweight + BMT time + x/y/z

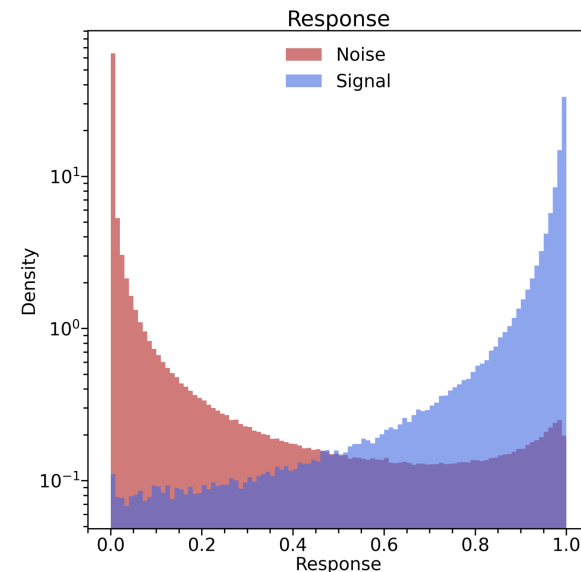
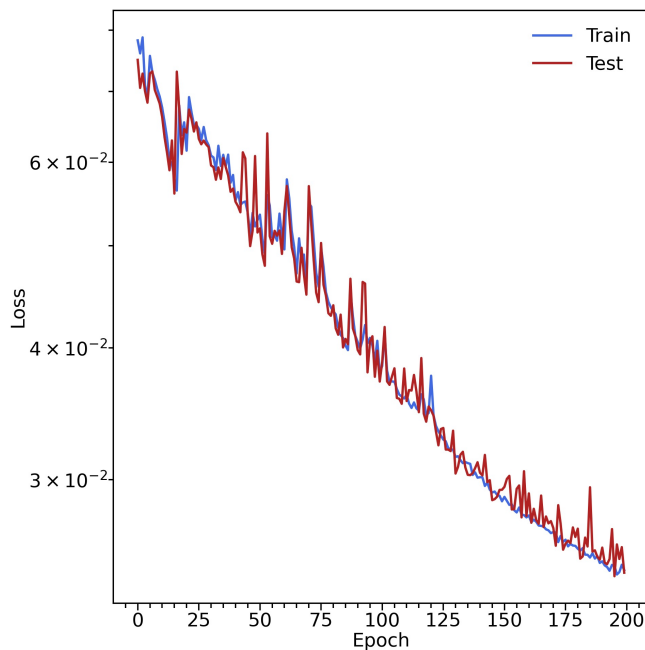
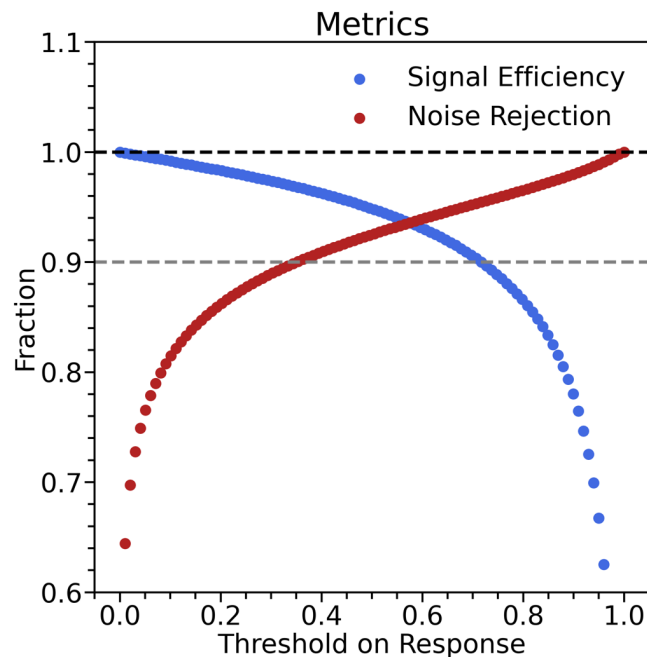


Variables : strip layer cweight sweight + BMT time + x/y/z + more training epochs



Variables : strip layer cweight sweight + BMT time + x/y/z

-> Training and test without events with only background



Conclusion:

- BMT time and x/y/z improve the model performance
- More epochs do not change significantly the model performance.

Next steps :

- Test hyperparameters