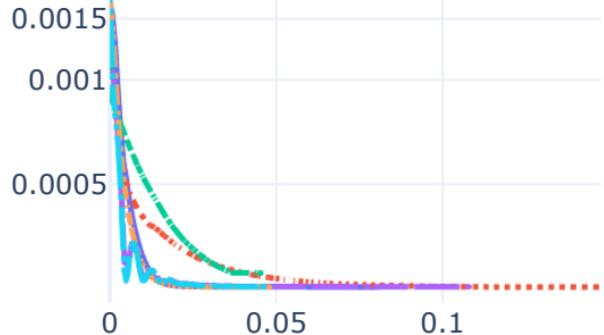
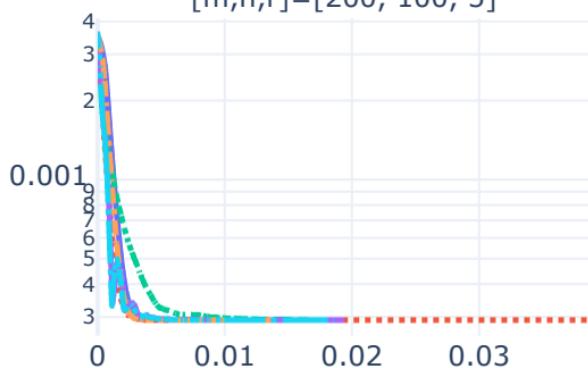


errors

 $[m, n, r] = [1000, 400, 20]$ 

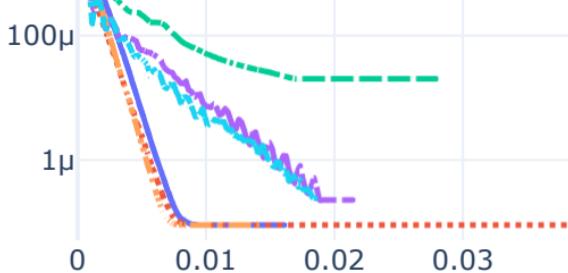
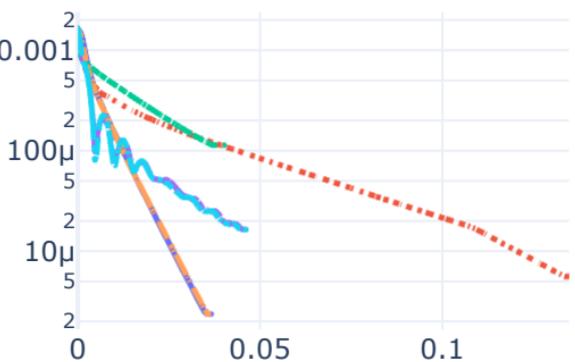
timings

 $[m, n, r] = [200, 100, 5]$  $\text{SNR}=30$

algorithm

- GD_Fro
- - - HALS
- - MU_Fro
- - NeNMF_Fro
- - - fastMU_Fro
- · - fastMU_Fro_ex

errors

 $\text{SNR}=100$