

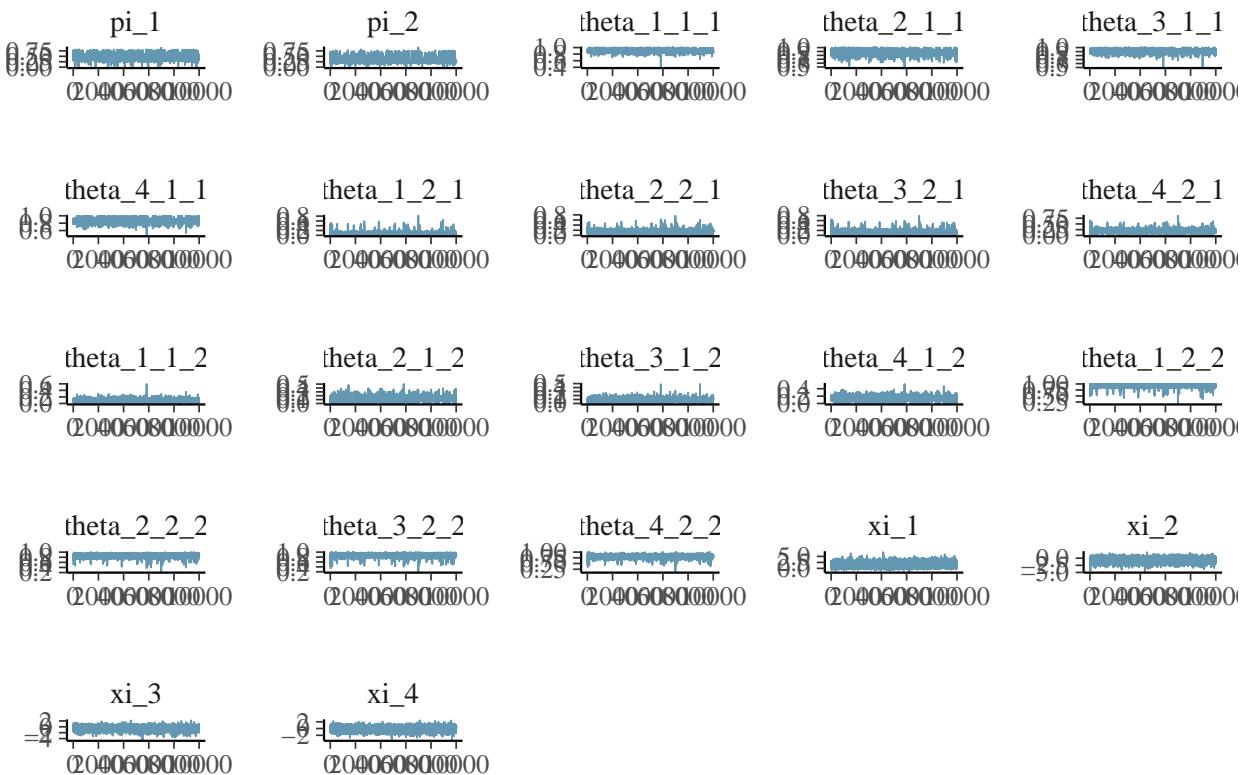
wsOFMM Diagnostics

Stephanie Wu

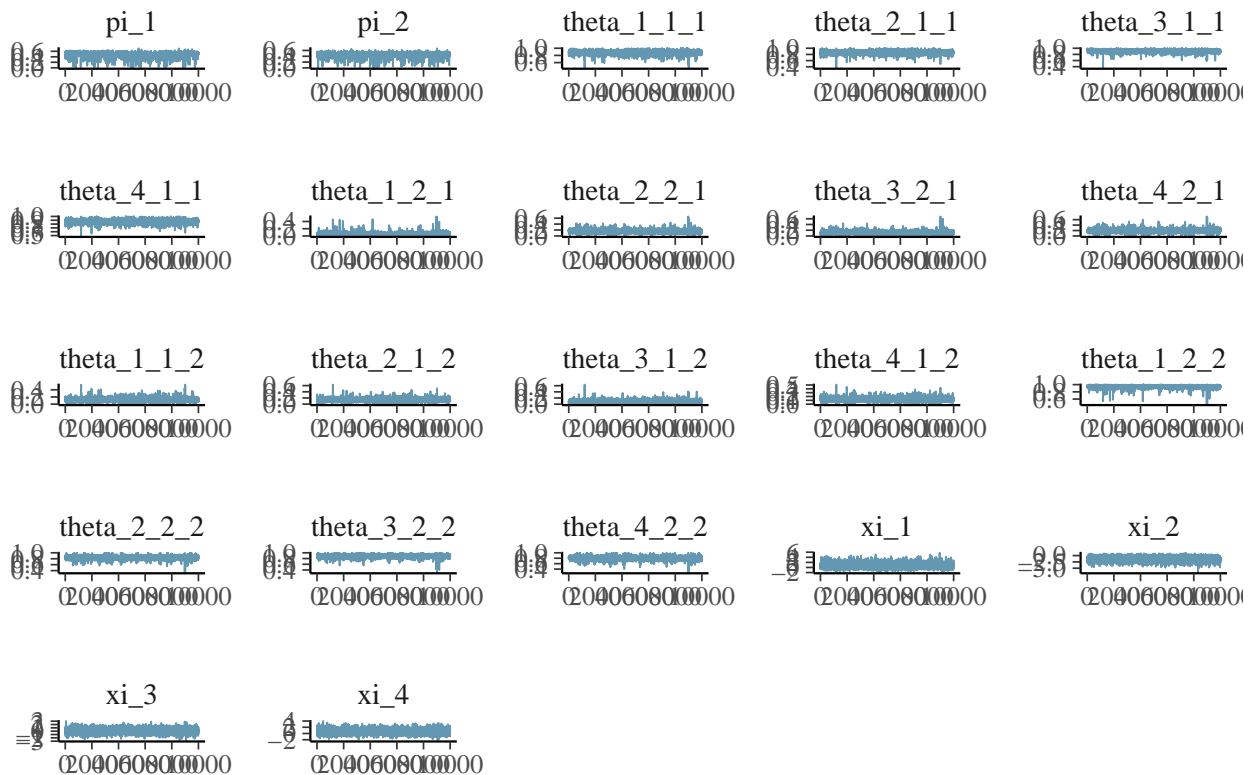
3/3/2022

MCMC Diagnostics

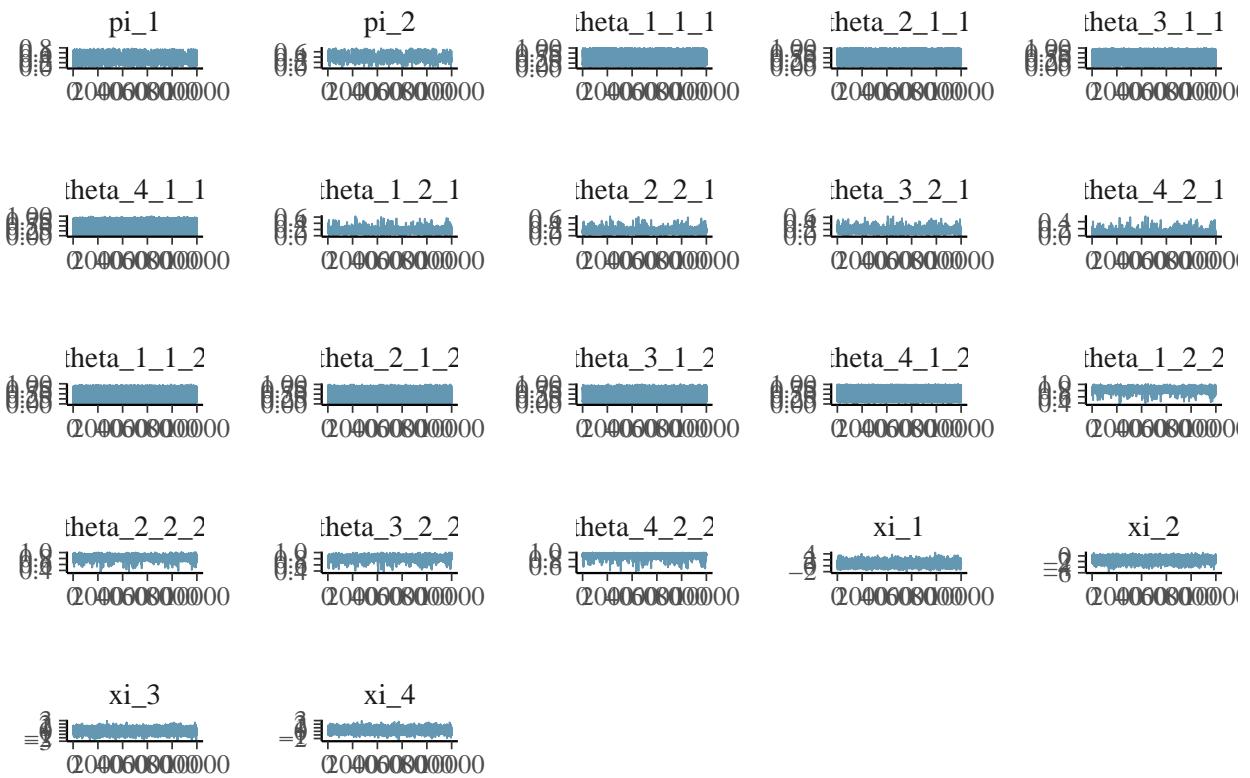
Trace Plots for wsOFMM Iteration 1



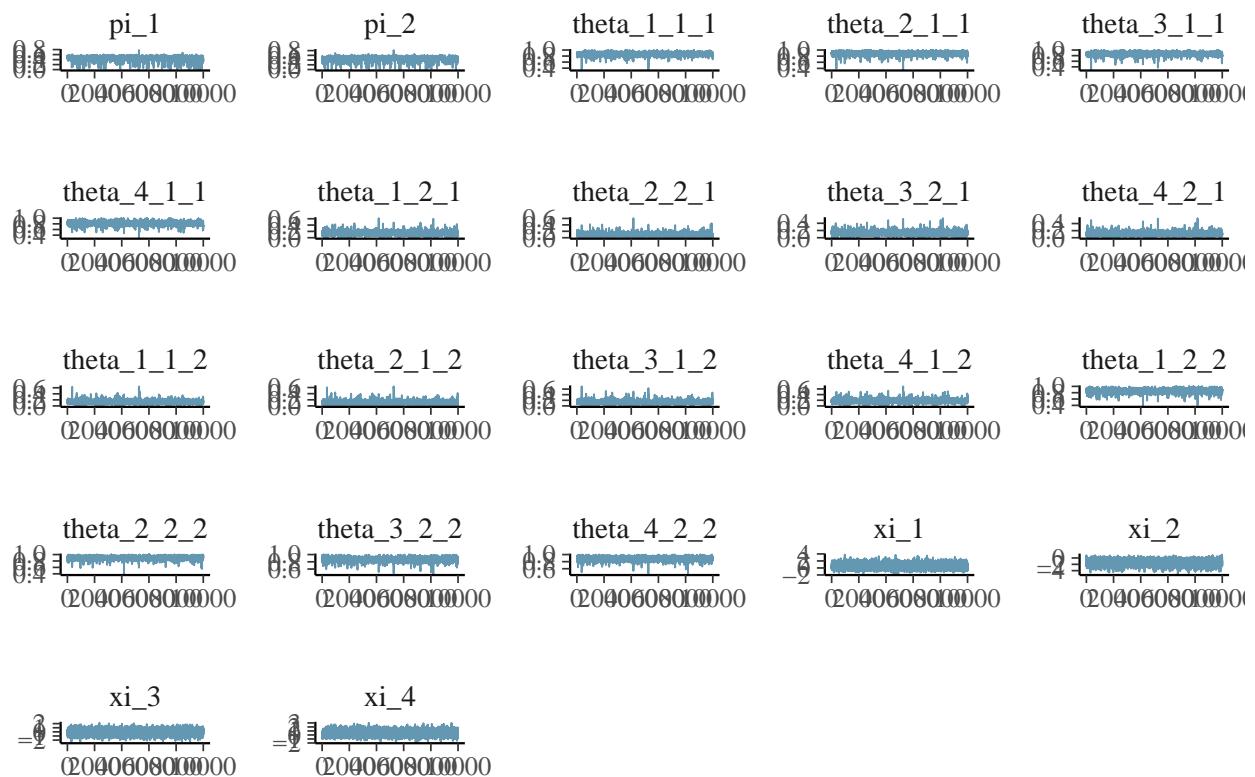
Trace Plots for sOFMM Iteration 1



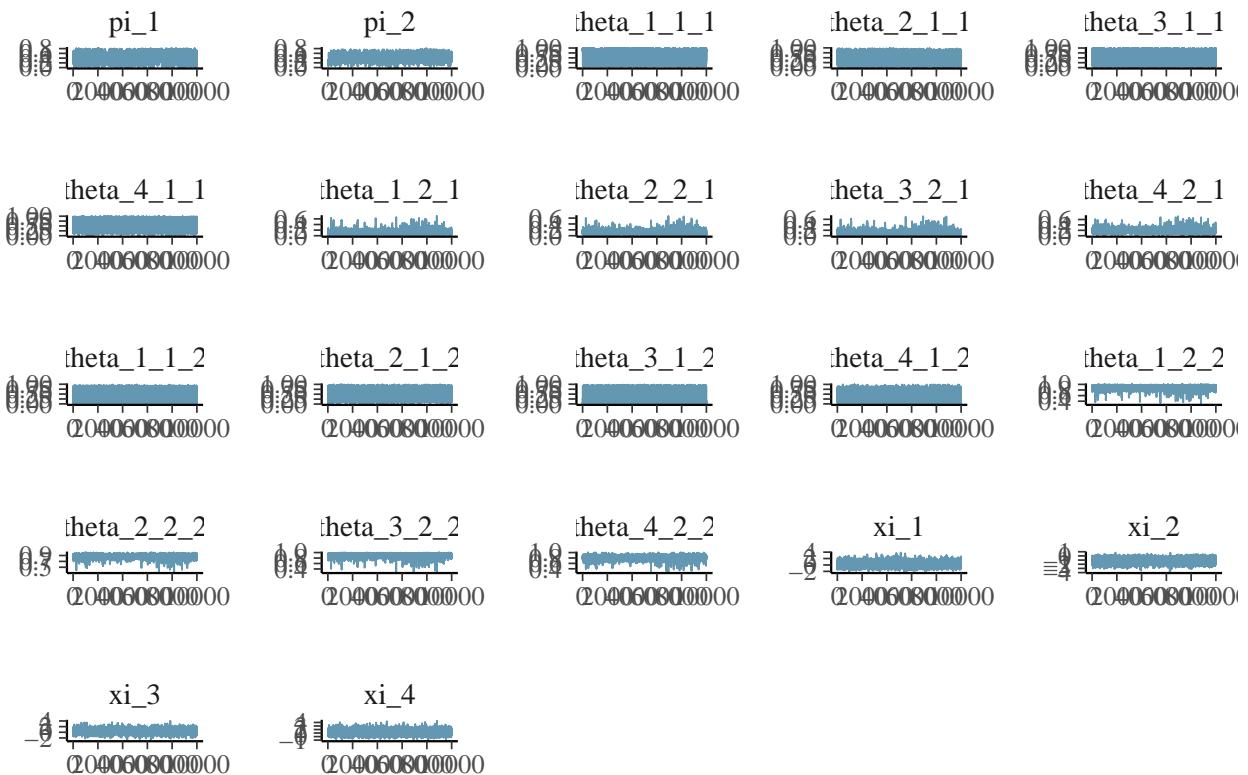
Trace Plots for wsOFMM Iteration 11



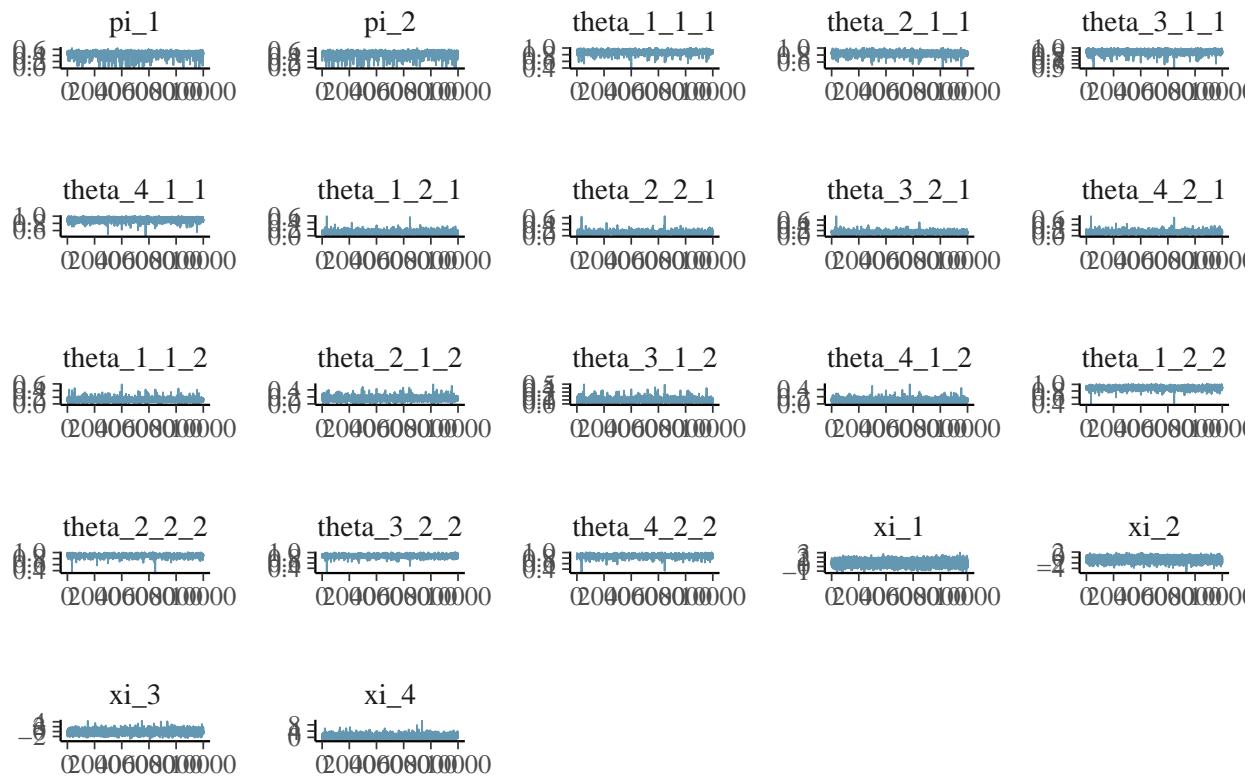
Trace Plots for sOFMM Iteration 11



Trace Plots for wsOFMM Iteration 20

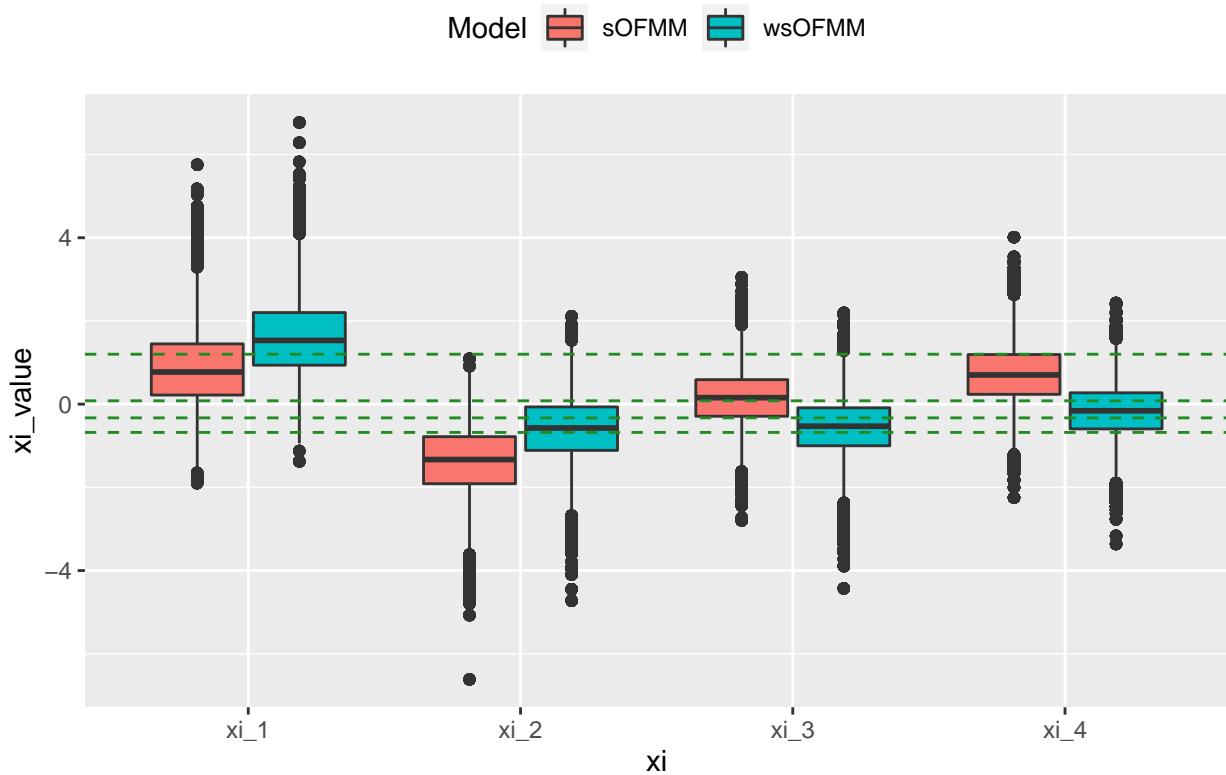


Trace Plots for sOFMM Iteration 20

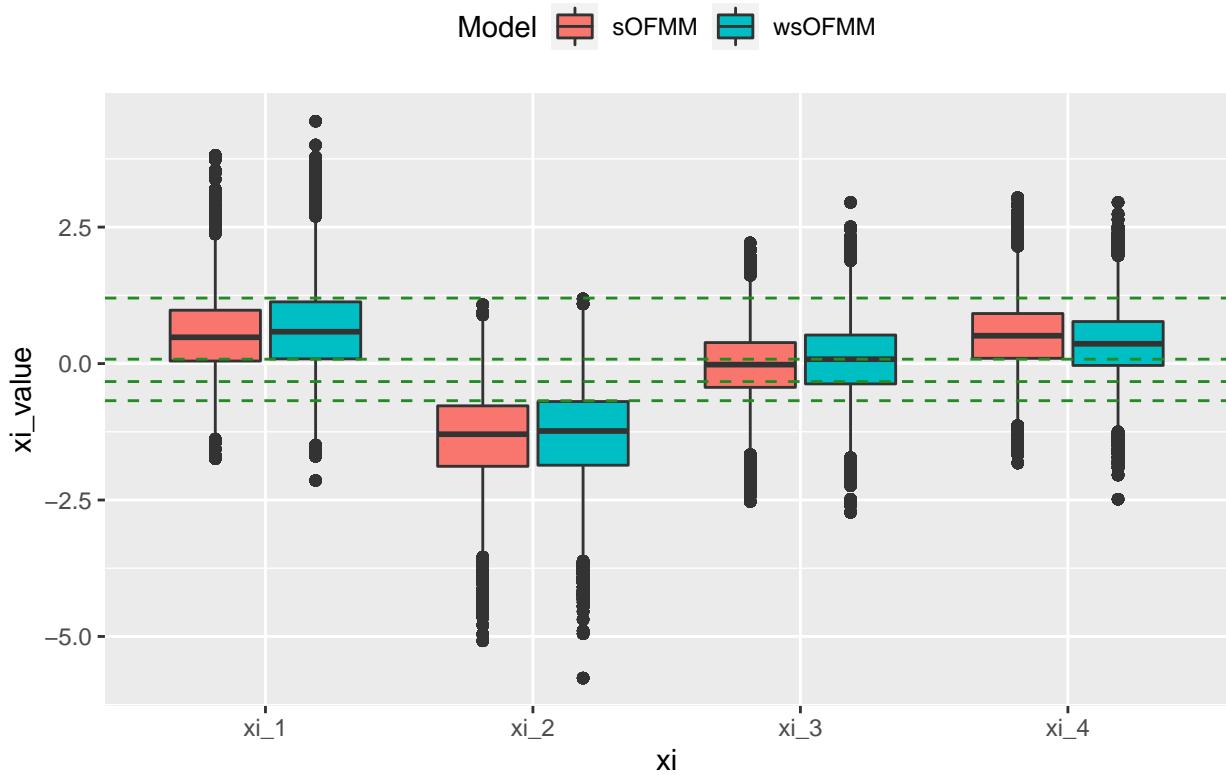


Posterior Parameter Estimates and Variance

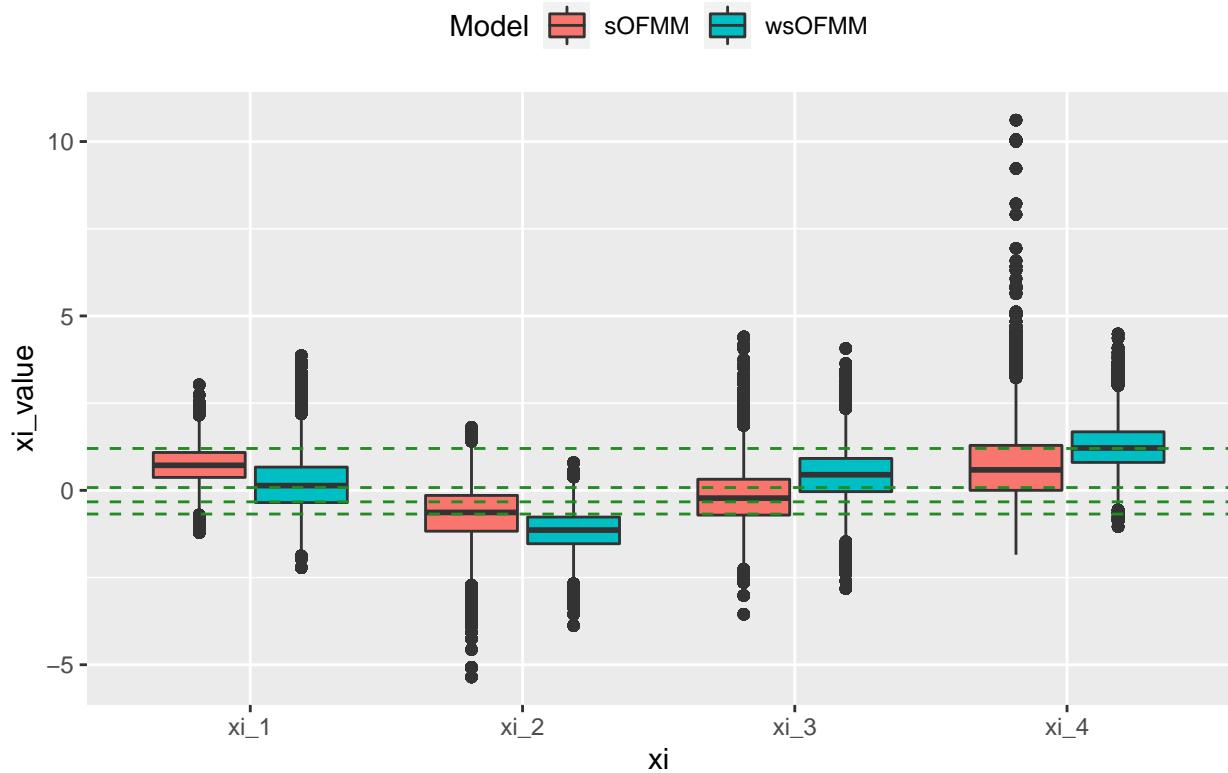
Parameter comparison for ξ_i for iteration 1



Parameter comparison for ξ_i for iteration 1



Parameter comparison for xi for iteration 1



MSE Summaries across Iterations

```

## [1] "Iteration 3 wsOFMM K=2 and sOFMM K=3"
## [1] "Iteration 5 wsOFMM K=2 and sOFMM K=3"
## [1] "Iteration 6 wsOFMM K=2 and sOFMM K=3"
## [1] "Iteration 8 wsOFMM K=2 and sOFMM K=3"
## [1] "Iteration 10 wsOFMM K=2 and sOFMM K=3"
## [1] "Iteration 12 wsOFMM K=2 and sOFMM K=3"

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## [1] "Iteration 8 wsOFMM K=2 and sOFMM K=3"
## [1] "Iteration 10 wsOFMM K=2 and sOFMM K=3"
## [1] "Iteration 12 wsOFMM K=2 and sOFMM K=3"

## [1] "wsOFMM"

##      MSE_pi    MSE_theta     MSE_xi     MSE_Phi
## 0.02688918        NaN       NaN 1.00909278

```

```
## [1] "sOFMM"  
##      MSE_pi    MSE_theta     MSE_xi     MSE_Phi  
## 0.08842328        NaN        NaN 0.92797764  
## [1] "sOFMM with posthoc adjustment"  
##      MSE_pi    MSE_theta     MSE_xi     MSE_Phi  
## 0.003647594       NaN        NaN 0.927977637
```