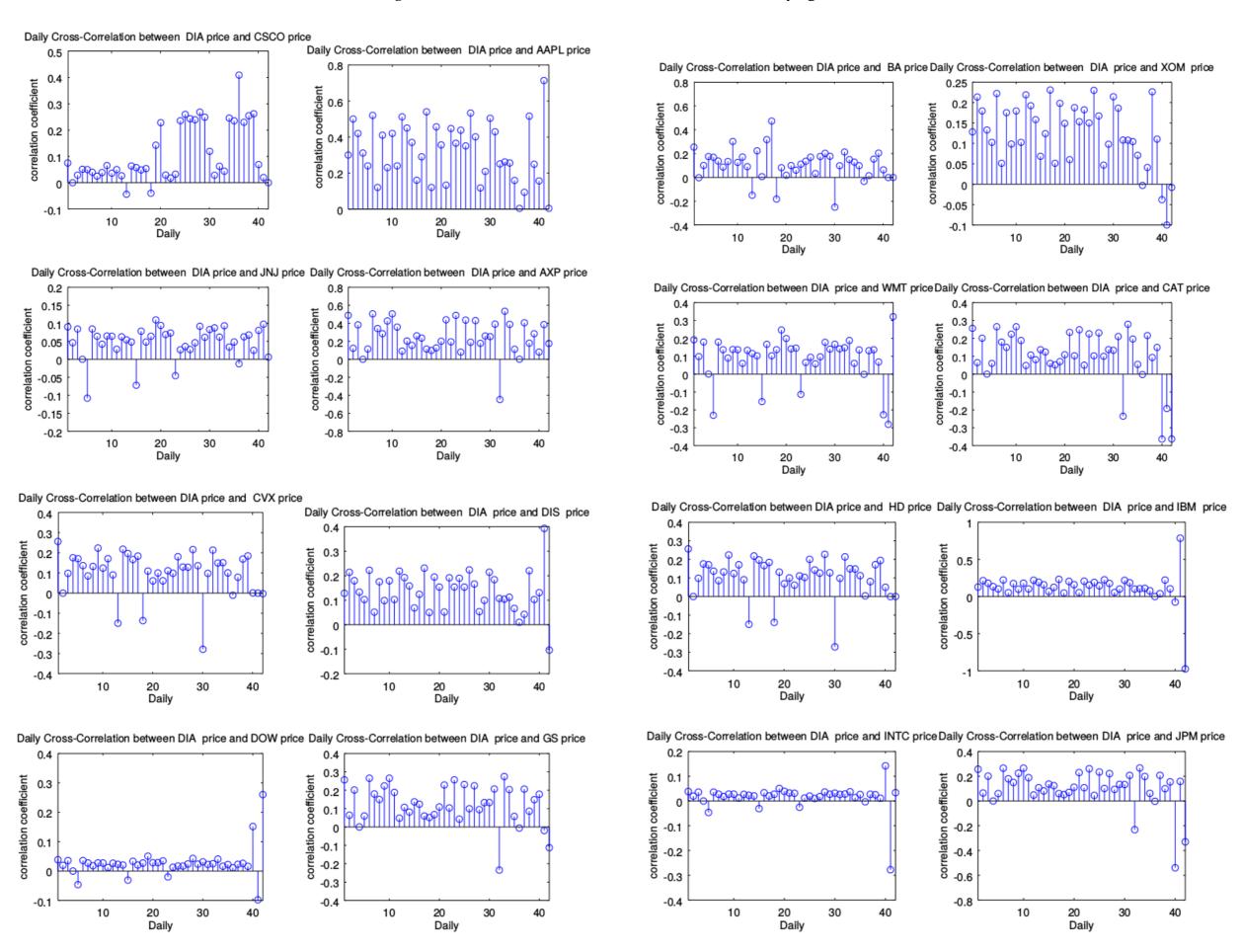
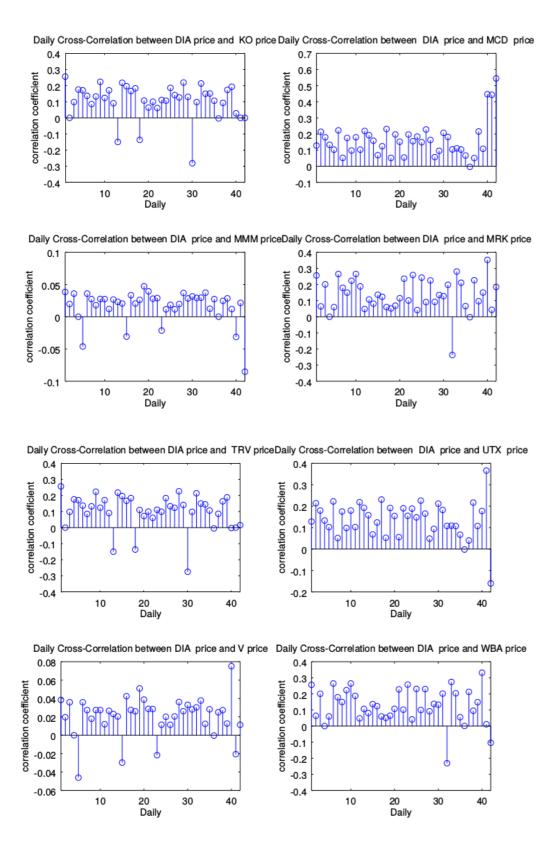
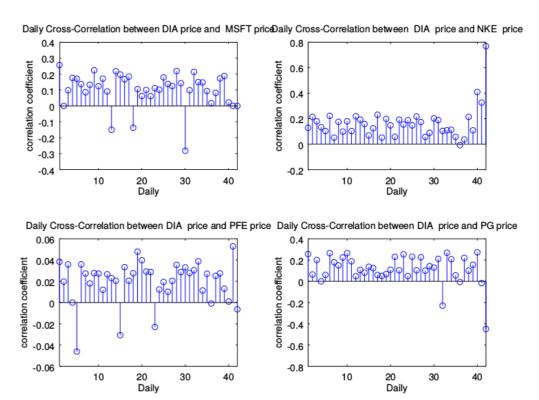
## **Online Appendix**

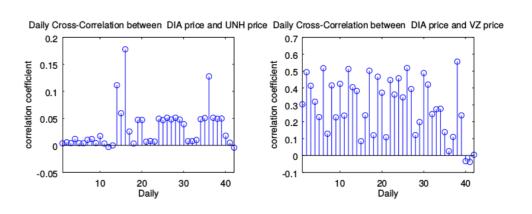
## Appendix A1

Figure 1: Cross-Correlations between DIA ETF and its underlying Assets



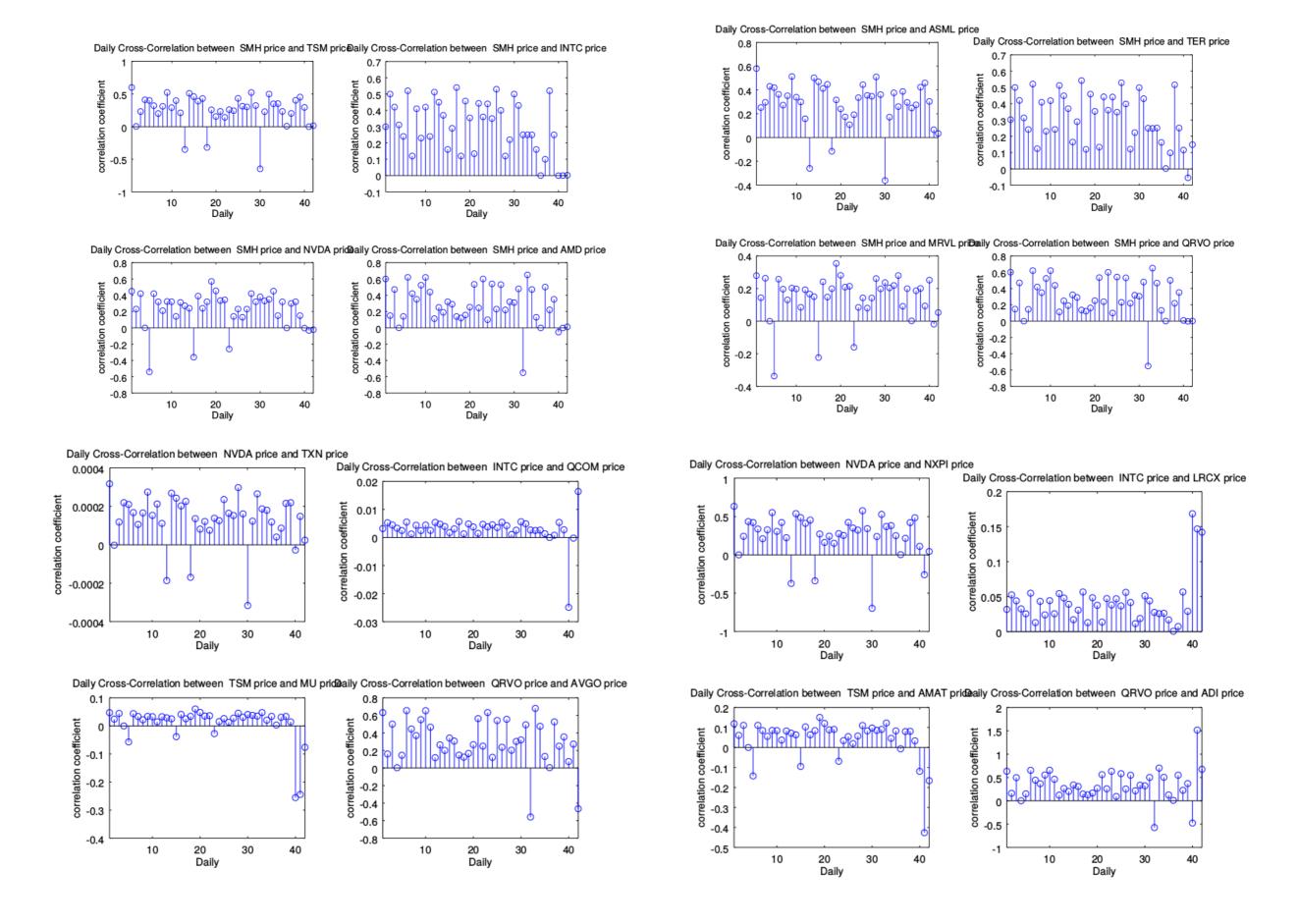






## Appendix A2

Figure 2: Cross-Correlations between SMH ETF and its underlying Assets



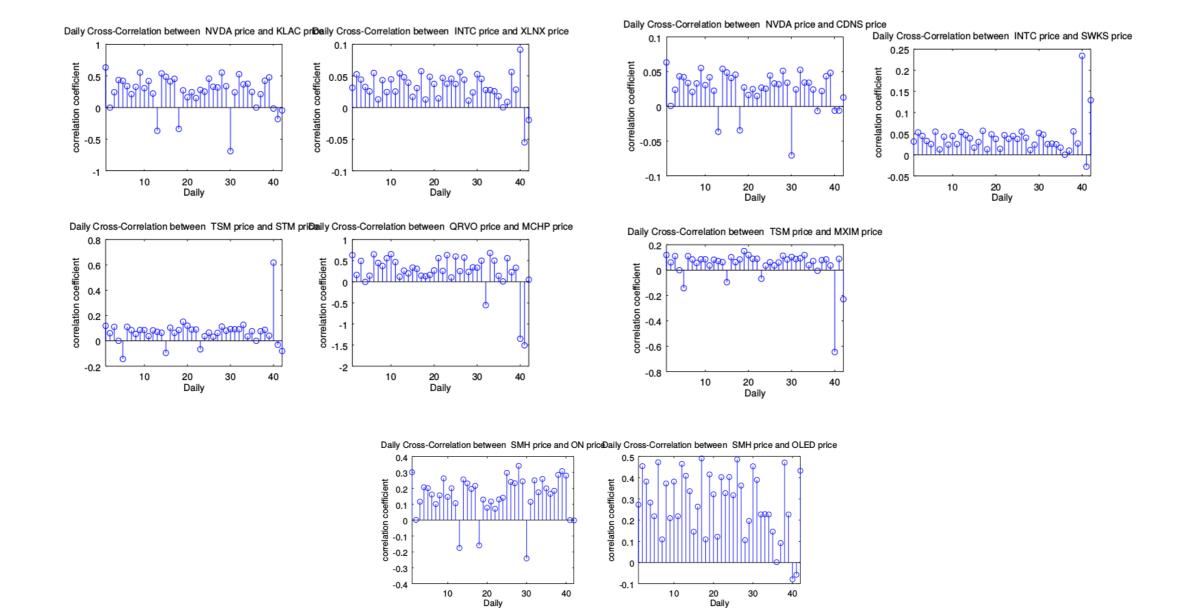
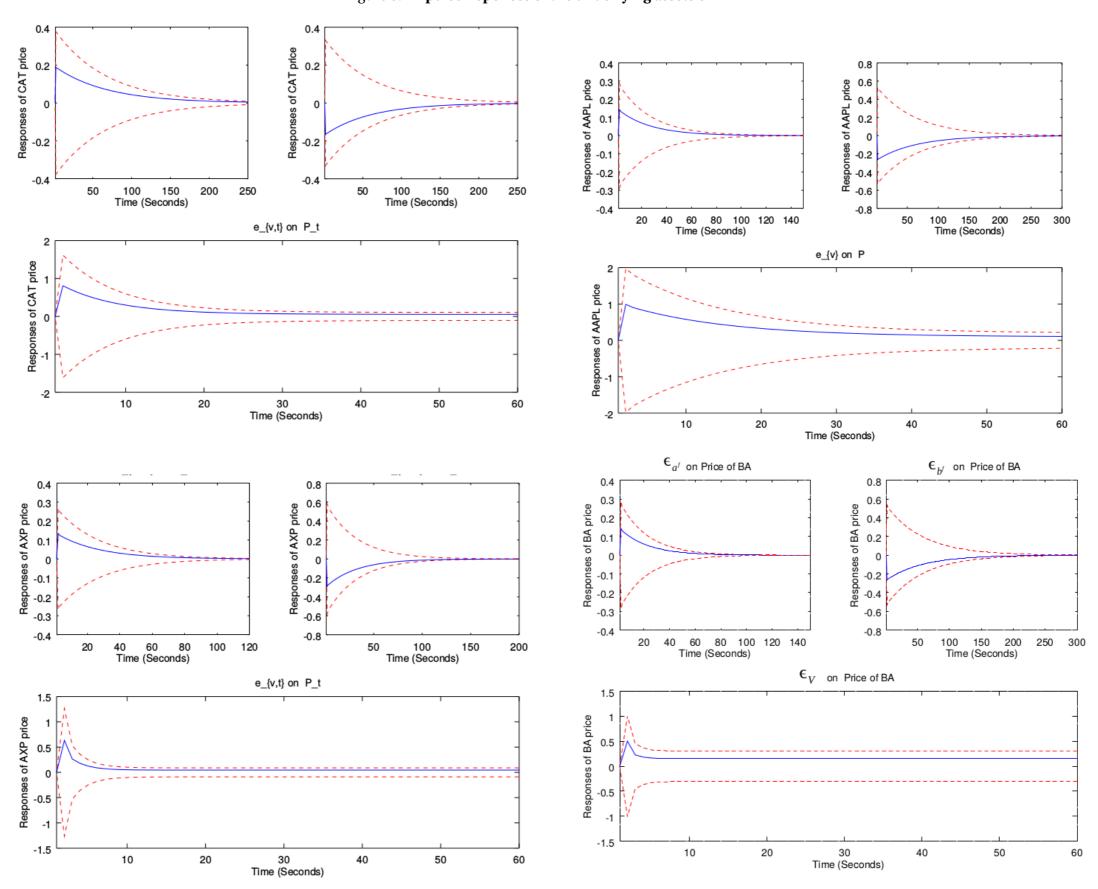
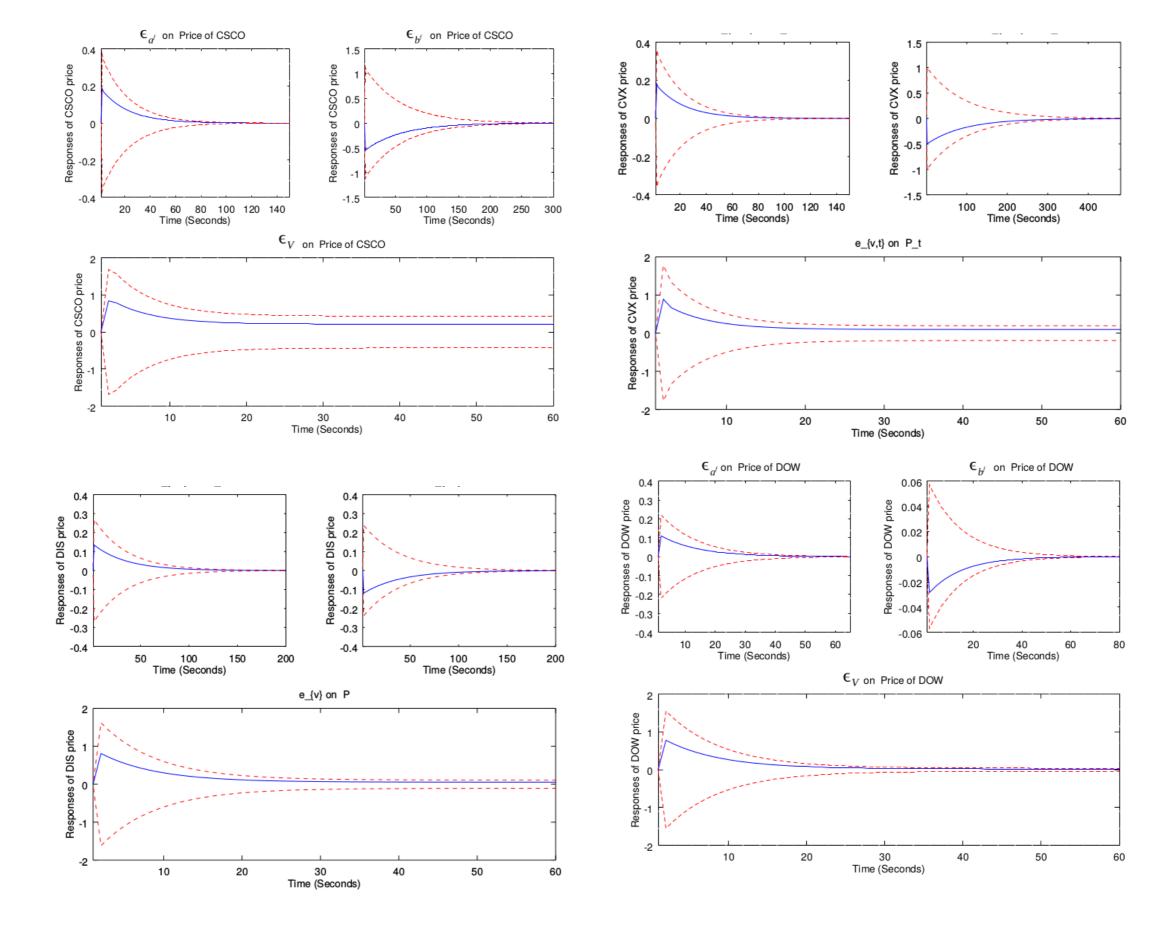
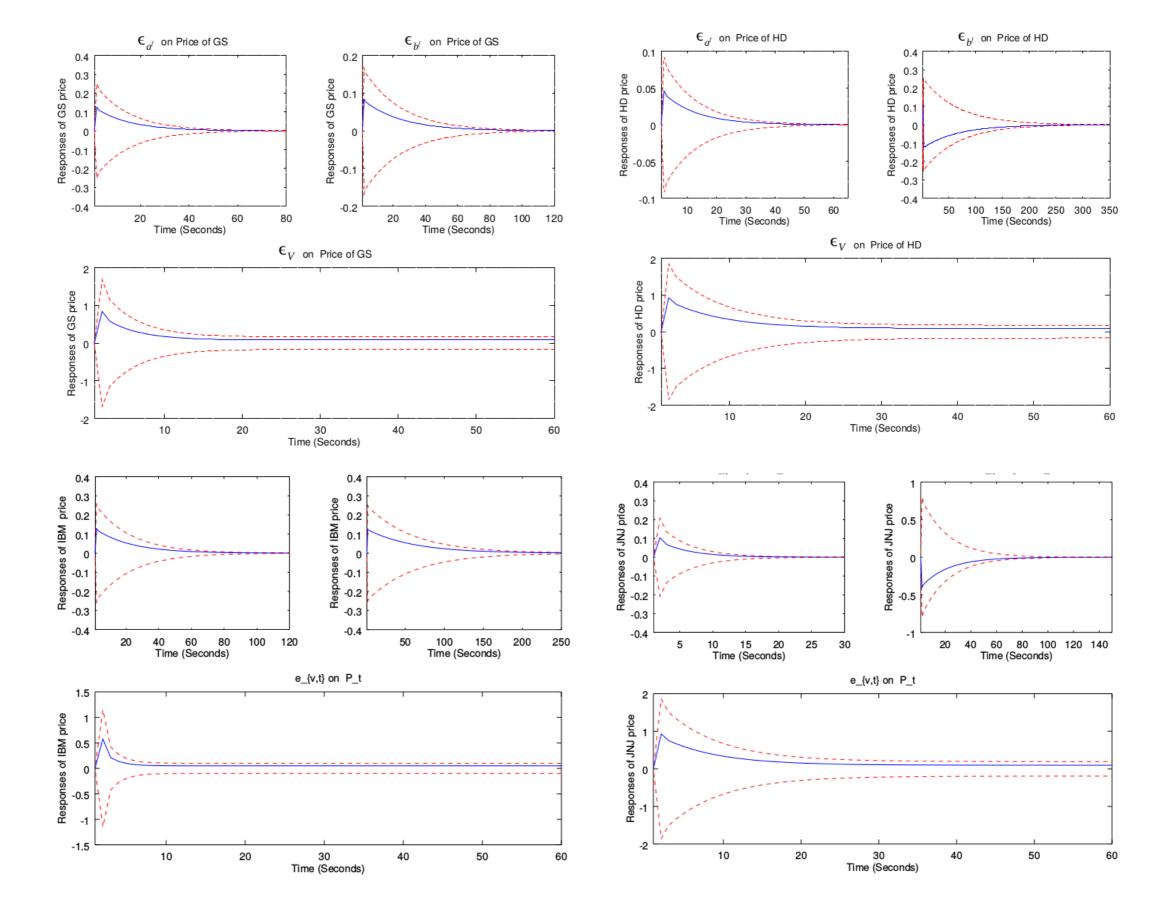
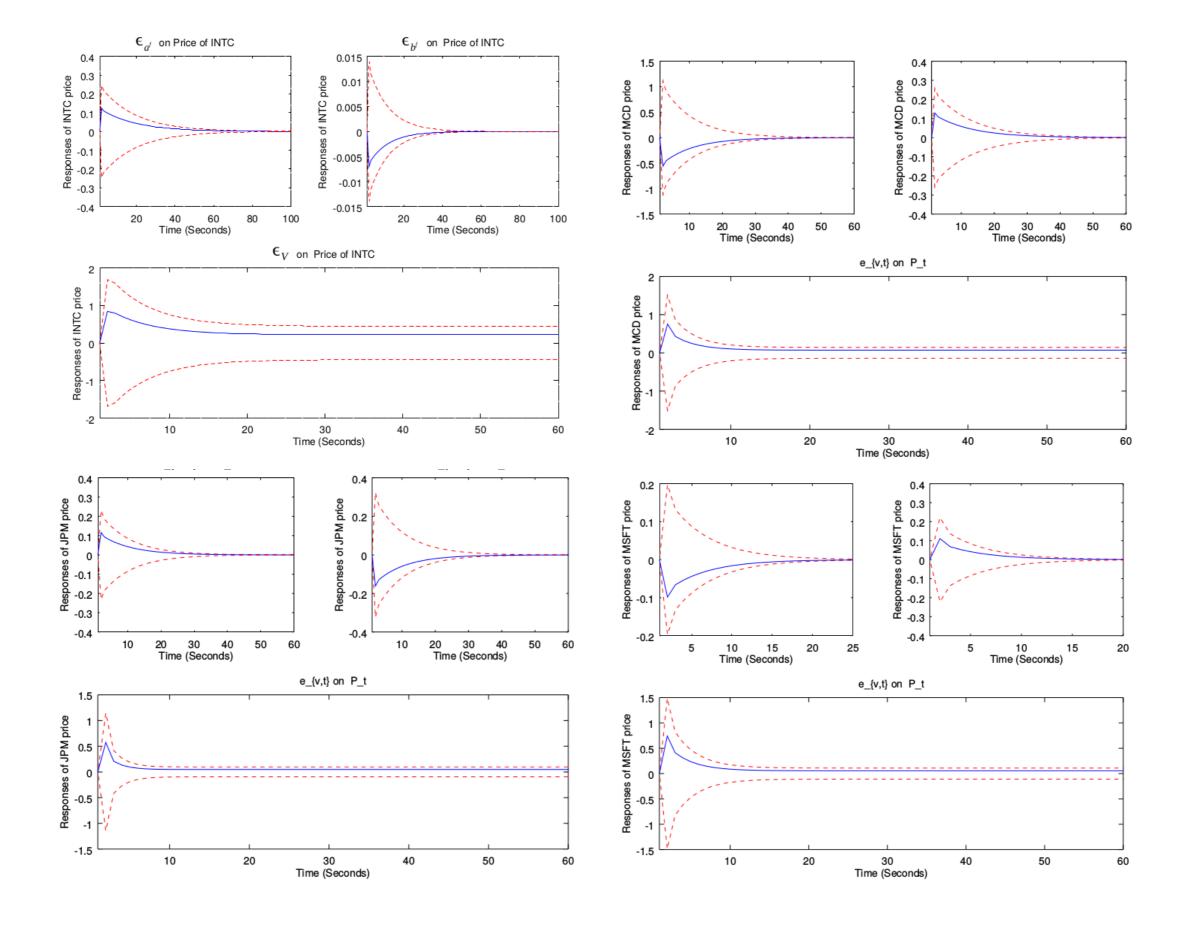


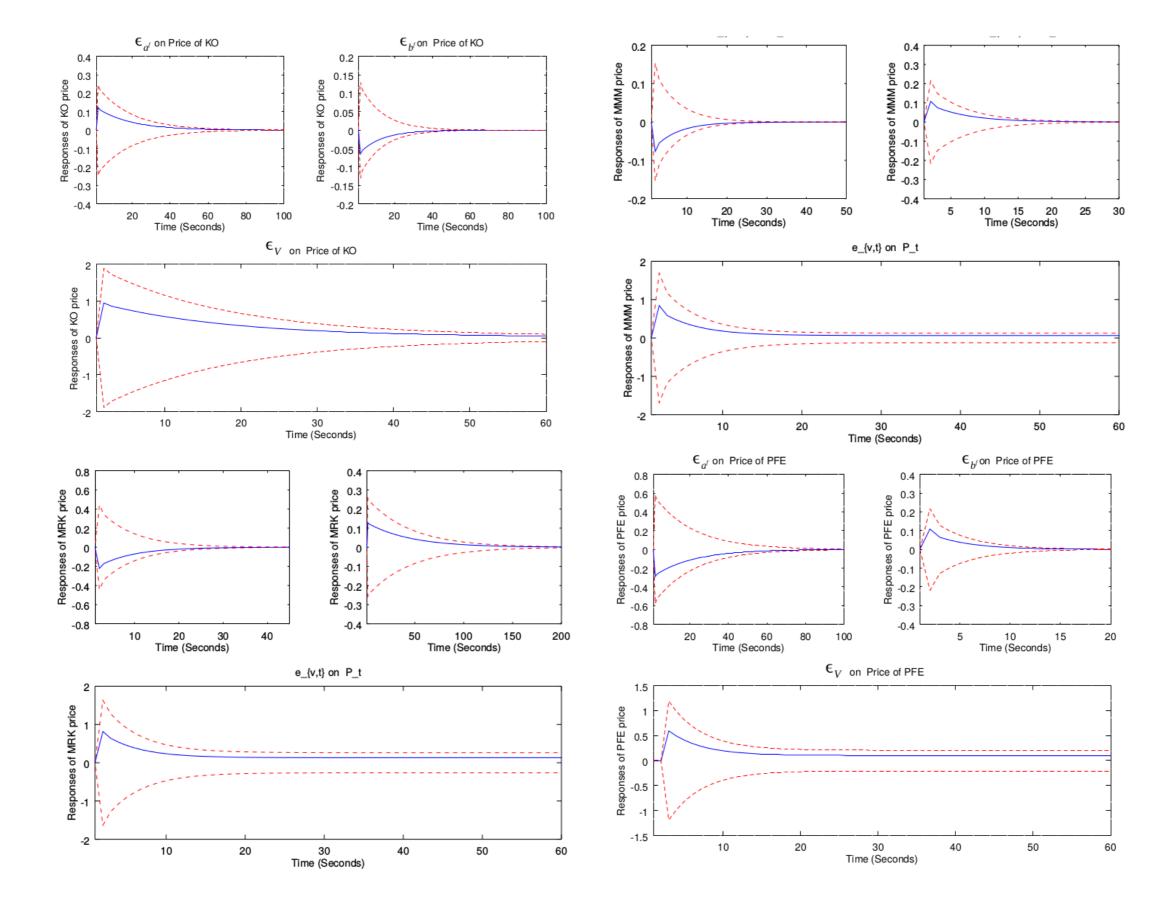
Figure 3: Impulse Reponses of the underlying assets of DIA ETF

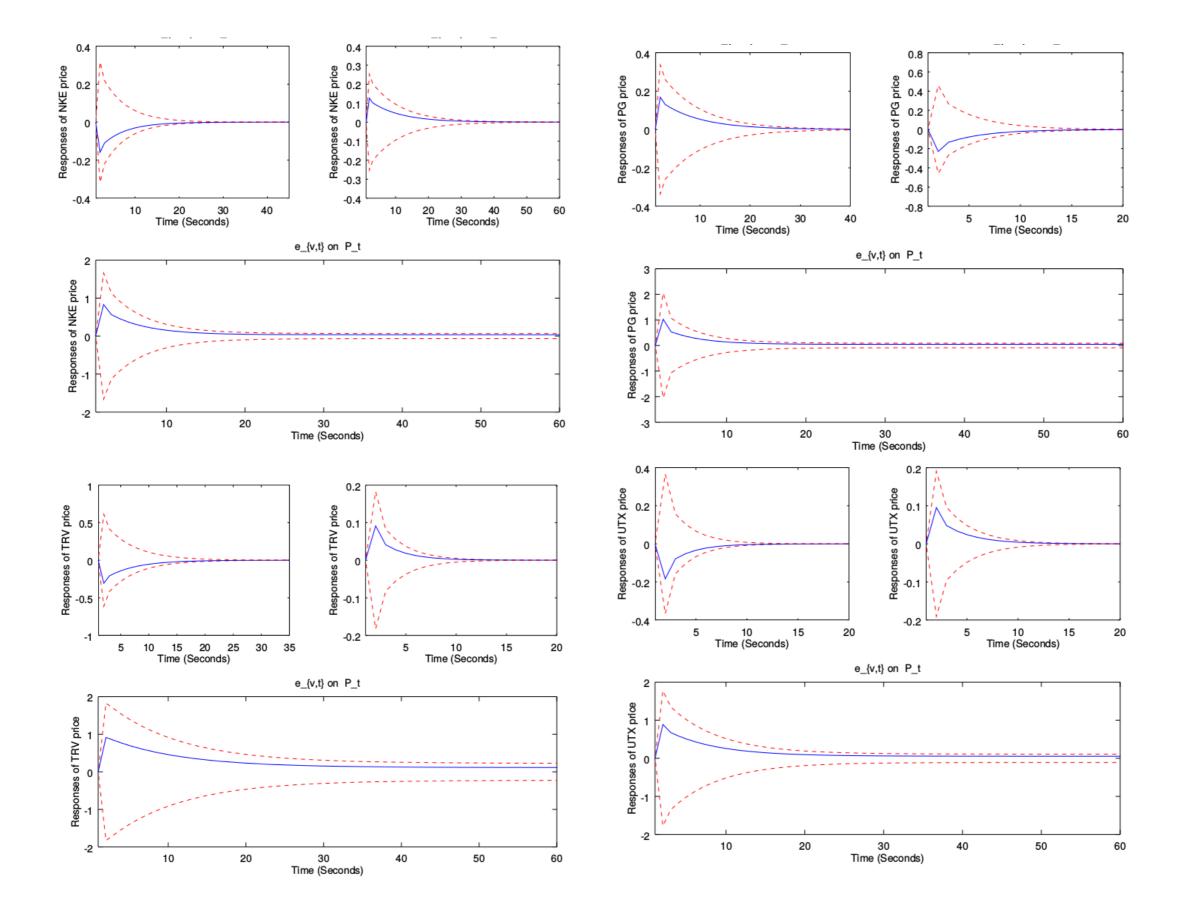


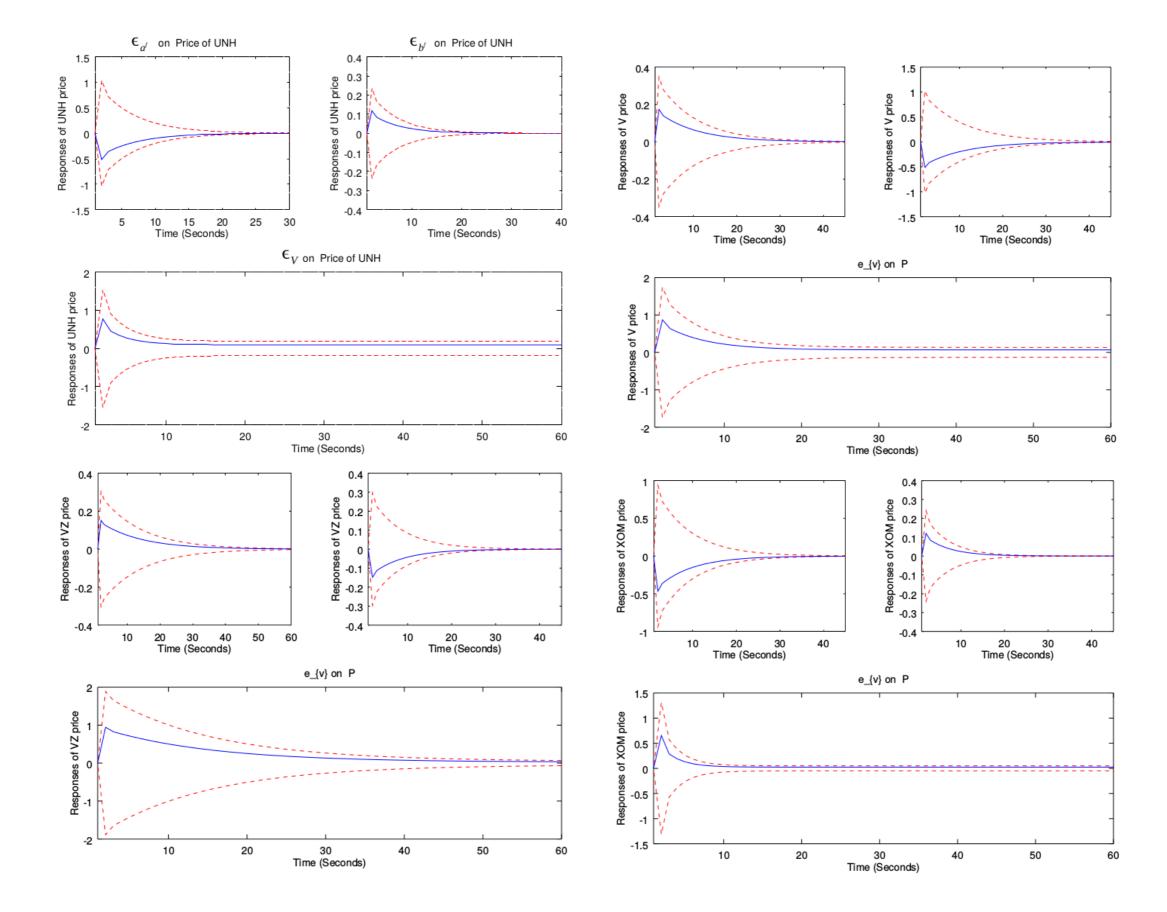


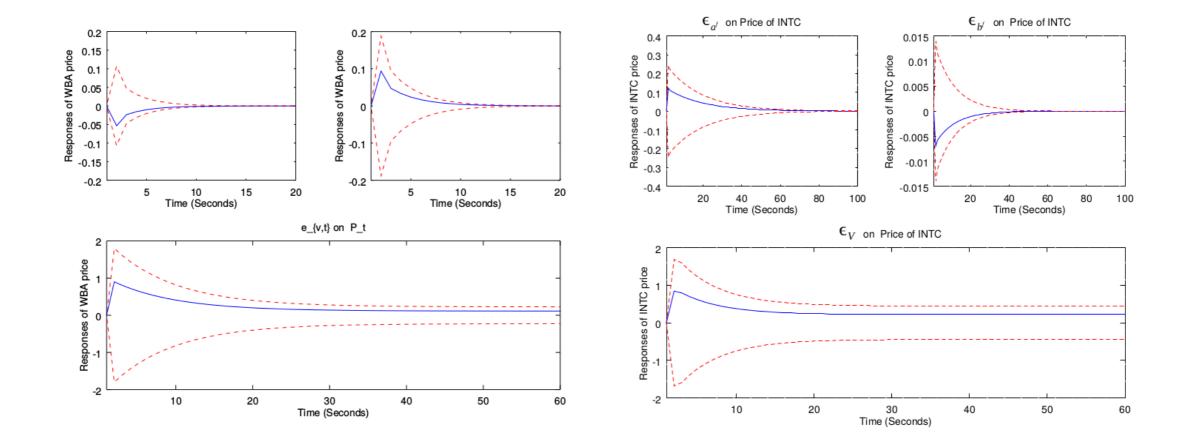












Appendix B2

Figure 4: Impulse Reponses of the underlying assets of SMH ETF

