Instructions for Running the Codes

Interactions and Coordination between Monetary and Macro-Prudential Policies

By Alejandro Van der Ghote

These notes explain how to run the codes in the subfolders.

1 Flexible Price Economy

This subfolder contains the codes that solve the economies with flexible prices and with or without macro-prudential policy intervention. The subfolder also contains the codes that generate Figures 1-4 in the paper and derive the numerical results in Subsection III.A.

To run the codes, do the following:

- 1. Run Parameters.m. This code generates the parameter values and saves the values in parameters.mat.
- 2. Run FrictionlessEconomy.m. This code solves the frictionless economy and saves the solution in frictionless.mat.
- 3. Run LaissezFaireEconomy.m. This code solves the laissez-faire economy and saves the solution in laissezfaire.mat.
- 4. Run FinanciallyRegulatedEconomy.m. This code solves the financially regulated economy with the socially optimal macro-prudential policy intervention and saves the solution in financiallyregulated.mat.
- 5. Run FiguresPaper.m. This code generates Figures 1-4 in the paper.
- 6. Run TablePaper.m. This code generates Table 2 in the paper and derives the numerical results in Subsection III.A.

2 Sticky Price Economy

This subfolder contains the codes that solve the economies with sticky prices and with or without macro-prudential policy intervention. The subfolder also contains the codes that

generate Figures 5-6 in the paper and derive the numerical results in Subsection III.B and Subsection III.C.

To run the codes, do the following:

- 1. Run Parameters.m. This code generates the parameter values and saves the values in parameters.mat.
- 2. Run FrictionlessEconomy.m. This code solves the frictionless economy and saves the solution in frictionless.mat.
- 3. Run LaissezFaireEconomy.m. This code solves the laissez-faire economy and saves the solution in laissezfaire.mat.
- 4. Run MonetaryEconomy.m. This code solves the sticky price economy without the macro-prudential policy and with the socially optimal monetary policy.
- 5. Run FiguresPaper.m. This code generates Figure 5 and Figure 6 in the paper.
- 6. Run Table3Paper.m. This code generates Table 3 in the paper.
- 7. Run SocialWelfareMonetaryEconomy.m. This code derives the numerical results in Subsection III.B.
- 8. Run EconomyCoordinatedPolicy.m. This code solves the sticky price economy with the coordinated policy.
- 9. Run Table4Paper.m. This code generates Table 4 in the paper.
- 10. Run SocialWelfareCoordinatedPolicy.m. This code derives the numerical results in Subsection III.C.

3 Online Appendix

This subfolder contains the codes that plot Figure 1 in the Online Appendix.

To run the codes, do the following:

1. Run Parameters.m. This code generates the parameter values and saves the values in parameters.mat.

- 2. Run FrictionlessEconomy.m. This code solves the frictionless economy and saves the solution in frictionless.mat.
- 3. Run SteadyStates.m. This code generates Figure 1 in the Online Appendix.