We try to replicate the impulse response graphs in Kannan et al.(2012). Here we want to thank Dr. Rabanal for his great help, who is one of the coauthors of this paper and kind enough to share their programming code with us. In our replication exercise, we have borrowed the steady-state values of several variables and two equations of calculating output gap from their code. As a result, we have succeeded in replicating their result to a great extent, though our result may differ in magnitude or timing in some graphs.

In the model data base, we denote this model as model NK_KRS12, which stands for a New Keynesian model constructed by Kannan, Rabanal and Scott (2012).

Six files containing in this package are worth noting:

macro5.mod is the code for replicating the impulse responses under the baseline Taylor rule;

macro6.mod is the code for replicating the impulse responses under the augmented Taylor rule;

macro7.mod is the code for replicating the impulse responses under the augmented Taylor rule plus macroprudential policy regime;

mapping.m is the code for compiling the impulse response graphs together;

NK_KRS12.mod is for incorporating model NK_KRS12 into the model data base.

MMB.m has been altered in order to include model NK_KRS12.

To replicate the results in this paper, please adjust the current directory of MATLAB to the correct path, and click the >>Run<< button in the file mapping.m

To use model data base, please just run MMB.m.