

# Homework Assignment #17

## Due April 4, 5pm as hardcopy

### 1. Results: Figures & Interpretation:

We have now entered the phase of your main project, in which you work on getting your results. Run your program to obtain results. In most cases results of your main project mean that you make figures. Some of your results might be also in the form of a table. So for this homework, you have to use your running program to simulate data and you have to make figures of your data. For many of you there might be an additional step of analysis of your data.<sup>29</sup> So, for this homework you should decide on what you want to “measure”, so which results you would like to get and work on the analysis. Do the analysis and make your figures. Write on the figures your interpretation of your results. You may write your interpretation of the results by hand on the hardcopy of your results. This homework will be due Tue, April 4, 5pm. We will discuss some figures in the next class, April 4 in the morning and you will have time in class to work on your figures. Since the deadline will be on the same day, you should aim for having your results already in good shape, so that you can use this class for working on your figures.

### Future:

- April 4, Tue: regular class, inclass topic Main Project Results: Figures
- **April 4, 5pm Tue: Main Project Results: Figures & Interpretation due**
- April 6, Thu: I will be out of town, we will make up this class April 12, 1 – 3 (if this works for you)
- April 7, Fr: I will be back in town later this afternoon. Office hours for Fr, April 7, will be changed to Mo Apr. 10, 1-3pm . If I am back on campus early enough, also office hours Fr, April 7, 3-4pm (stay tuned).
- **April 8, Sa: Final Program due**
- April 10, Mo: make up office hours 1-3pm
- April 11, Tu: class as usual, inclass topic is traffic flow
- April 12, Wed, 1-3: probably make-up class (maybe also additional office hours in morning)
- **April 12, Wed, 5pm Results section of second main project paper due**
- April 13, Thu regular class, inclass topic traffic flow
- **April 14, Fr, 5pm Abstract of second main project paper due** (abstract will be in pamphlet for symposium talks)
- April 18, Tue, regular class, inclass topic Mini-Project III about traffic flow

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<sup>29</sup>Katie: You might want to determine for example the mean squared displacement and make a figure of this mean squared displacement. Narayan and Rajasri: In your case you might want bifurcation diagrams and possibly different bifurcation diagrams for different parameter sets, or Rajasri in your case you might need additional analysis to determine first the period and only afterwards the bifurcation diagram.