Fall 2017: Math 644 (PDEs)

Instructor: Maja Taskovic (taskovic at math.upenn.edu)

Class schedule: Tuesday and Thursday, 1:30-3:00pm, DRL 3C2

Office hours: Tuesday, 3:00-4:00pm and by appointment, DRL 4N34

Course information:

Canvas: https://canvas.upenn.edu


Other references will be provided throughout the semester.

Topics to be covered (subject to change):

• Four important linear PDEs (Transport, Laplace’s, Heat and Wave equations)
• The method of characteristics
• Fourier transform
• Sobolev spaces
• Dispersive PDEs

Homework: Every or every other week, posted on Canvas. You are encouraged to discuss homework problems with your classmates and seek help during the office hours etc. However, you need to write up solutions independently in your own words.

Exam: there will be no exams.

Presentations: If there is interest, we can organize in-class presentation by students.

Grade: Based upon homework, class participation (and possibly presentation).