

Lectures 7/5

- We introduced partial differential equations (PDE's) (Section 20).
- We then discussed numerical solution of elliptic boundary value problems. We focused on a unit square with fixed boundary and then discuss how this can be generalized to other types of regions and other types of boundary conditions. This corresponds mainly to Section 20.0.2 and the distributed ppt presentation.
- With Jens you worked on an exercise with a simple elliptic PDE.

Lectures 14/5 (the last)

- We will discuss diffusion equations (Section 20.2). Main focus will be the first part handling a constant diffusion coefficient (Eq. 20.2.3). We will look at the methods on p. 1044-1046 in a reformulated way to hopefully make it easier to understand.
- With Jens, you will work on the exercise from last time and an exercise on a simple diffusion equation. This will be the last exercise of the course.