

# Mathematical and Numerical techniques in Partial Differential Equations

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The course will discuss aspects of initial boundary value problems for time dependent partial differential equations such as wellposedness and properties of solutions. Special emphasis will be given to boundary conditions. Corresponding aspects of numerical solution techniques will be discussed, with emphasis on finite difference methods. Computational efficiency and extensions to finite volume methods will also be considered. There will be approximately 18 lectures, 6 assignments, and 1 project. The course starts on Wednesday September 5 10.15 in room 2345/Polacksbacken. I will give an introduction to the course and together we will decide the course schedule.

Please let me know if you want to attend the course but cannot come the first time.