

### **Important remarks about home assignments.**

Solution of the homework problems is a very important part of the course. It allows you to check how you understand the material discussed in the lectures.

Also there will be some important topics for which I will not have enough time in the lectures. They will be discussed in home assignments.

The grades for homework assignment will be counted in the final grade for the course as a positive factor (i.e. I can use good grades for home assignments to increase your grade if your exams are not too good).

I will use several markings for the problems.

(i) Unmarked problems. These are usually exercises, very straightforward. You should try to do them to see that you understand basic notions.

It is not necessary to hand them in, but if you have questions about them please ask me.

(ii) Problems marked [P]. These are essential problems that require an understanding of the material in the course and require some work. You should do them carefully and hand them in.

(iii) Problems marked (\*) and (\*\*). These are more difficult problems.

(iv) Problems marked ( $\square$ ) are devoted to interesting and important side topics that are not strictly necessary for the course.

I expect that these will be more interesting and exiting problems and would advice you to think deep about them.

If you want you can hand in their solutions. We also can discuss them in the class.

Joseph Bernstein