Real Analysis, Fall 2003

Class Meets in Room 1302.   Tuesdays 5.10-7.00

Problem session: Room 613.   Wednesdays 5.00-6.00

Instructor: Stanislav Mintchev ¡mintchev@cims.nyu.edu¿

TEXT: Royden   Real Analysis, Third Edition.

Problems will be posted on the web on the day following the class and will be due in two weeks.

Work on problems will count 50% and final exam 50% towards the final grade.

Office Hours: Before Class. I will try to be in Tuesdays 3PM-5PM. Other times please check by e-mail or by phone to see if I am free. Or take a chance! My e-mail address is <varadhan@cims.nyu.edu>. My phone number is 212-998-3334 or 83334 from NYU.

The first two chapters on Set Theory and Real Number system will be left to you to read. It will be reviewed in the problem session.

We will start with the construction of Lebesgue measure, develop integration theory, go on to general theory of measure and integration and return to abstract spaces. The sequence in chapters is likely to be some thing like

$$3, 4, 5, 11, 12, 6, 7, 8, 9, 10a, 10b.$$