Lecture 08, 30.01.02

- Space $L^1(R)$, identification of functions which coincide on gets of zero measure.
- Norm, triangle inequality
- Fourier transform of functions in $L^1(R)$
- Properties of Fourier transform
- Rules for computing the Fourier transform
- Fourier transform: decay and smootheness

The content of this lecture can be found (mainly) in Lesson 17