

Lecture 03, 14.01.2014

- Dirichlet kernel. Formula, graph.
- Convergence of the Fourier series. Dini condition.
- Lipschitz condition. Examples.
- Idea of summation method
- Chezaro summation
- Chezaro summation in terms of the Fourier coefficients
- Fejer kernel
- Properties of the Fejer kernel
- Chezaro summation of Fourier series for continuous functions
- (Reminder) Shifts are continuous in L^1 and in L^2
- Chezaro summation for functions in L^1 and L^2 .