Lecture 04 16.01.2014

- *Reminder:* shifts are continuous in L^1 and in L^2

- Uniqueness of Fourier coefficients for functions in L^1 and L^2

- Convolution in terms of the Fourier coefficients

- Once again: Parseval equation for functions in L^2

- (Four) equivalent conditions of completeness of an orthonormal system

- Legendre polynomials

- Chebyshev polynomials