

Functional Analysis and Mathematical Physics
Interdepartmental Research Group
(FAMP)
Colloquium Series
Spring 2018

Talks 8, 9: *Fourier Series by Their History*

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Abstract

The talk presents the development of the Fourier series theory and its strong connection with problems arising in 18th-century physics. Different types of convergence of Fourier series are discussed in that context and related to advances in mathematical analysis in 19th and 20th centuries. The influence of the Fourier series theory on the progress of other areas of mathematics is also considered. The talk is expository (although proofs of a few significant facts are presented) and should be accessible to students with a decent calculus background.

Fridays, April 27, May 4, 2018, 2:00-2:50 PM, PB 428