

2013 Summer Enhancement Program (Analysis)

July 17 - August 16
MWF 12:30 - 2:00 PM, Van Vleck Hall, B215

Instructor: Xianghong Chen, Email: xchen@math.wisc.edu

Class Webpage: <http://www.math.wisc.edu/~xchen/SEP/sep.html>

Materials: Past exams on real/complex analysis

Course Objectives: Analysis SEP is a discussion class designed for graduate students who are planning to take the real analysis or complex analysis qualifying exam. As such, we will go through the past exams and focus both on problem solving and proof clarity. The main topics covered are (roughly): advanced calculus, Lebesgue integration, convergence of functions, Fourier series, Hilbert and Banach spaces, theory of distributions, complex analysis, etc.

Course Format: Students will be informed about the problems that are going to be discussed in the next class. They are expected to attempt the problems in advance and participate in the upcoming discussion.

Exam Info: Wednesday, August 21, 10:00 AM - 4:00 PM, B130 Van Vleck (Please double check the official webpages)

Useful Resources:

Solutions to older problems:
<http://www.math.wisc.edu/~seal/quals/quals.html>

Analysis SEP by Balazs Strenner:
http://www.math.wisc.edu/~strenner/balazs/Analysis_Quals.html

Qual notes by Bryan Crompton:
http://www.math.wisc.edu/~crompton/analysis_qual_notes.pdf

Math 725 by Prof. Denissov:
<http://www.math.wisc.edu/~denissov/Teaching-old/725.htm>

Math 725 by Prof. Kiselev:
<http://www.math.wisc.edu/~kiselev/class2012.html>

Math 721 by Prof. Seeger:
<http://www.math.wisc.edu/~seeger/721.html>

Math 721 by Prof. Zlatoš:
http://www.math.wisc.edu/~zlatos/Teaching/721_12_fall/