



WESTFÄLISCHE
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Carleson's theorem, variations and applications

Professor Christoph Thiele

(University of California, LA, z. Z. Universität Bonn)

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A famous theorem of Carleson states that the Fourier series of a square integrable function on an interval converges almost everywhere. This theorem relates to at least three other topics in analysis: boundedness of generalized eigenfunctions of Schroedinger operators in one dimension, weighted ergodic averages as in Bourgain's Return Times theorem, and the Hilbert transform along vectorfields. In the talk we discuss these connections.

Tee wird ab 16:00 Uhr im Sitzungszimmer SR o des Mathematischen Instituts serviert.

Fachbereich 10
Mathematik und Informatik
<http://wwwmath.uni-muenster.de>

