



PURE MATHEMATICS 501 "INTEGRATION THEORY"

Calendar Description: H(3-0)

Abstract measure theory, basic integration theorems, Fubini's theorem, Radon-Nikodym theorem, further topics.

Prerequisite: Pure Mathematics 545 or consent of the Division.

Note: Credit for both Pure Mathematics 501 and 601 will not be allowed.

Syllabus

Topics

Measure and Integration Theorem
Radon-Nikodym Theorem
 L^p spaces
Product measures
Measurable dynamics (if time permits)

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