



PURE MATHEMATICS 633 "ALGEBRAIC TOPOLOGY II"

Calendar Description: H(3-0)
Cohomology operations, CW-complexes, introduction to homotopy theory.

Suggested Text: Gray, "Homotopy Theory", Academic Press.

Syllabus

Topics

More on Fundamental Group

Higher Homotopy Groups

Fibrations

Simplicial Approximation Theory

Blakers Massey Theorem, Freudenthal Suspension Theorem

CW-Complexes

Spectra

Puppe Axioms and Generalized Homology

Spectral Sequences, Hurevich Theorem

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