

新增课程

几何分析

wed 2~5 pm

Rm 430

王浩荣

课程大纲

- §12 Gradient Estimate and Harnack Inequality for the Heat Equation
- §13 Upper and Lower Bounds for the Heat Kernel
- §14 Sobolev Inequality, Poincaré Inequality and Parabolic Mean Value Inequality
- §15 Uniqueness and Maximum Principle for the Heat Equation
- §16 Large Time Behavior of the Heat Kernel
- §17 Green's Function
- §18 Parabolicity
- §19 Harmonic Functions and Ends
- §20 Manifolds with Positive Spectrum
- §21 Manifolds with Ricci Curvature Bounded from Below
- §22 Manifolds with Finite Volume
- §23 Stability of Minimal Hypersurfaces in a 3-Manifold
- §24 Stability of Minimal Hypersurfaces in a Higher Dimensional Manifold
- §25 Linear Growth Harmonic Functions
- §26 Polynomial Growth Harmonic Functions
- §27 Mean Value Constant, Liouville Property, and Minimal Submanifolds
- §28 Massive Sets
- §29 The Structure of Harmonic Maps into a Cartan-Hadamard Manifold
- §30  $L^q$  Harmonic Functions
- §31 Measured Neumann Poincaré Inequality and Measured Sobolev Inequality
- §32 Parabolic Harnack Inequality and Regularity Theory