

课程简介的中英文模板

MA423. 几何与拓扑讨论班

理论课, 1学分, 2学时/每周。先修课程: 拓扑学 (MA323)、微分几何 (MA327), 或数学系同意。几何与拓扑和代数、分析一道是基础数学的三大领域, 强调几何直观, 包括微分几何 (几何分析)、代数几何、代数拓扑、几何拓扑 (低维拓扑) 等活跃的研究方向。本讨论班旨在发挥数学系几何与拓扑方向的师资优势, 由相关教员组织感兴趣的同学围绕前沿、交叉专题滚动开设。形式为学生分工轮流主讲, 负责教师指导并与该方向其他教师及外校专家参与选讲。近期可能讨论的专题包括应用与计算拓扑、流形与模形式、四维流形的拓扑与几何、纽结论与代数数论等。

MA423. Seminar in Geometry and Topology

Lectures, 1 credit, 2 hours per week. Prerequisites: Topology (MA323), Differential Geometry (MA327), or consent of the Mathematics Department. Geometry and topology, algebra, and analysis are the three major fields of pure mathematics. It emphasizes geometric intuition and visualization, and includes active research areas such as differential geometry (geometric analysis), algebraic geometry, algebraic topology, and geometric topology (low-dimensional topology). The seminar grows out of a strong representation of the field by faculty in the Department. Relevant faculty members will take turns over semesters to organize interested students for directed reading on hot topics. Registered students will present assigned topics under supervision of the instructor, with supplementary lectures by the instructor, other relevant faculty members, as well as experts in the field from other universities. Recent proposed topics include applied and computational topology, manifolds and modular forms, the topology and geometry of four-manifolds, knot theory and algebraic number theory.

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